

726-2

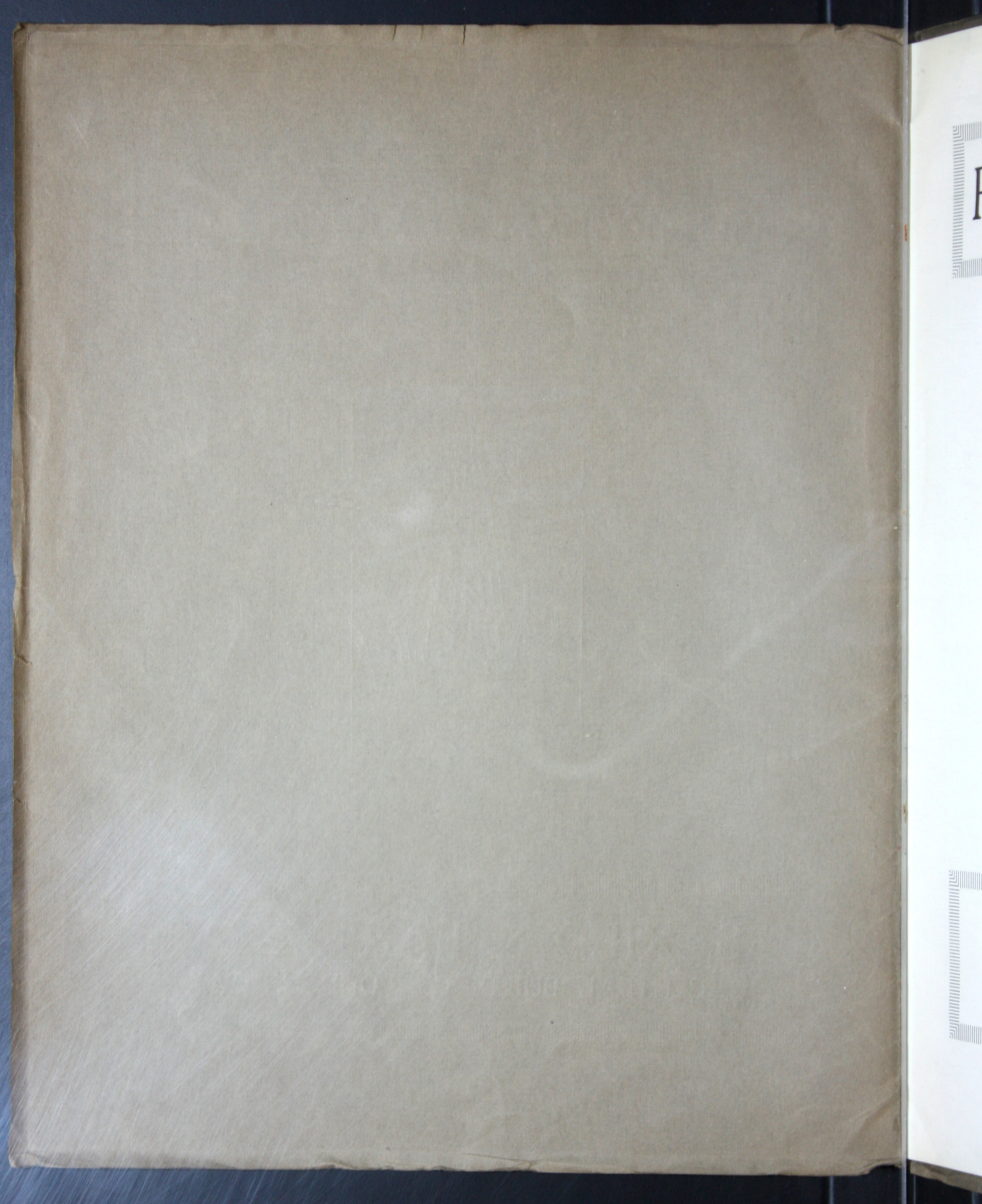
APR 21 1924

REINFORCED CONCRETE



SAXILD & PARTNERS

2, CENTRAL BUILDINGS, LONDON, S.W. 1



REINFORCED CONCRETE



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REINFORCED CONCRETE is now recognised as the ideal material for structures where strength and durability are required. It also has the advantage of being the most fire-resisting of modern building materials, and the fact that it is at the same time the cheapest material for practically all constructional work is an important factor where economy, both in initial cost and upkeep, is a consideration.

No lengthy introduction is necessary for a catalogue such as this. It is composed of illustrations of reinforced concrete structures carried out by us during the past six years, and we are content that our reputation should rest upon our executed works.

The structures illustrated may be divided into two distinct categories : (1) Maritime works and all structures in connection with dock, harbour, and riverside work, and (2) factory buildings, warehouses, and industrial structures of all descriptions. The design and carrying out of so many structures for these purposes have given us a very large experience, and we have consequently developed several methods of design and types of construction which have many advantages over those usually adopted.

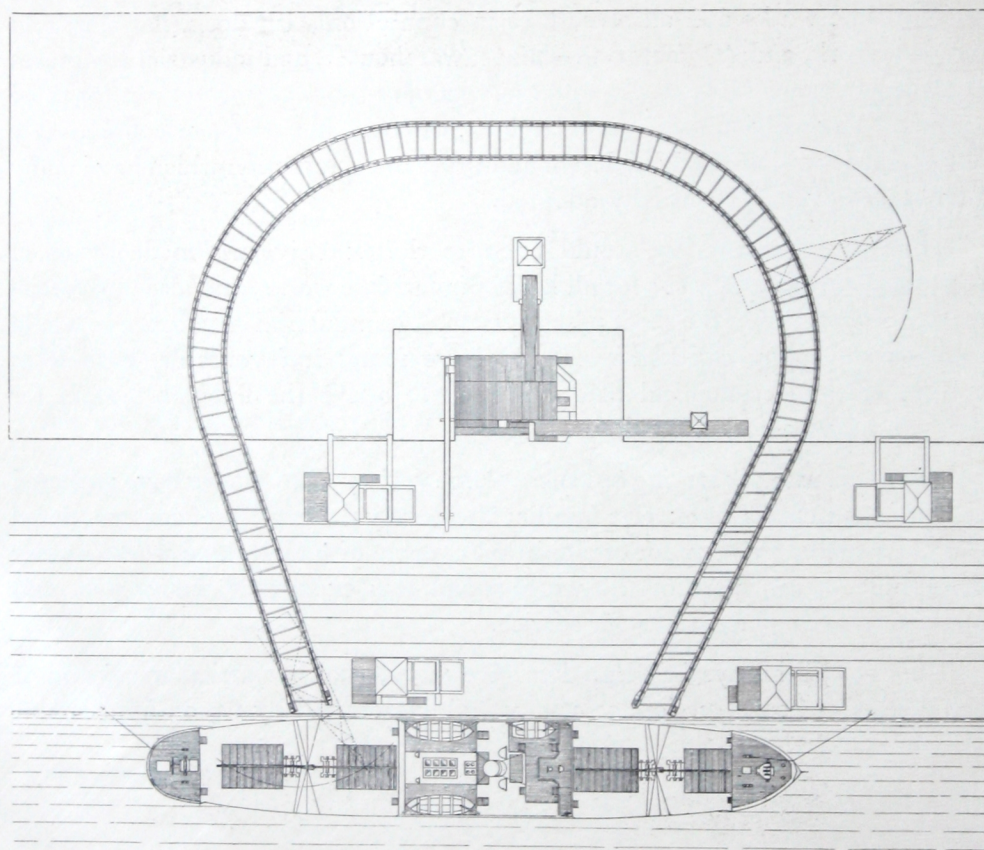
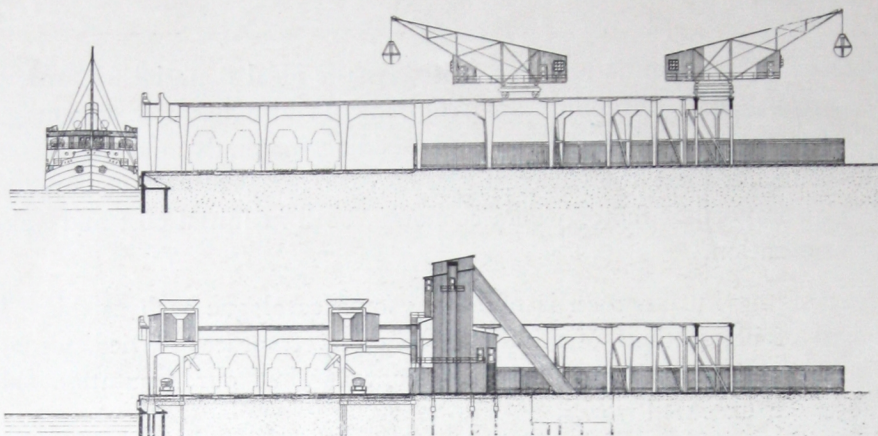
In this connection we would point to the extensive use made by us of reinforced concrete caissons for all kinds of maritime works, and also our special type of quay walls on the sheet piling system. In industrial structures we would mention the many cases in which we have found it favourable, both from a technical and economical point of view, to adopt the flat-slab system for floors in heavily-loaded buildings.

In the course of carrying out such a large variety of works we have gathered around us a number of experts familiar with every description of constructional work ; we have built up an organisation capable of undertaking works of any magnitude in any part of the world ; and this experience, knowledge, and organisation, we place it at your service.

We should always be pleased to give more detailed particulars of any of our methods of construction, or of any building erected by us, on application.

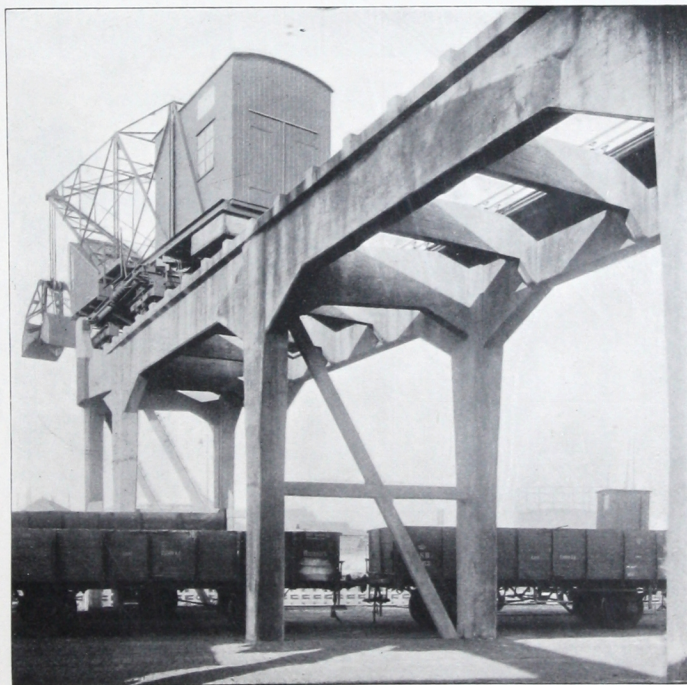
SAXILD AND PARTNERS.

SAXILD & PARTNERS



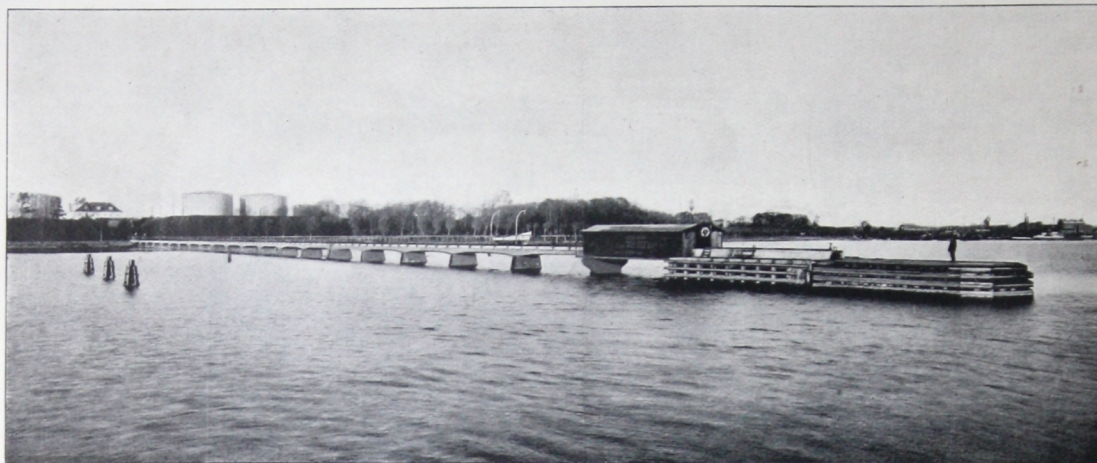
COAL DISCHARGING PLANT

SAXILD & PARTNERS

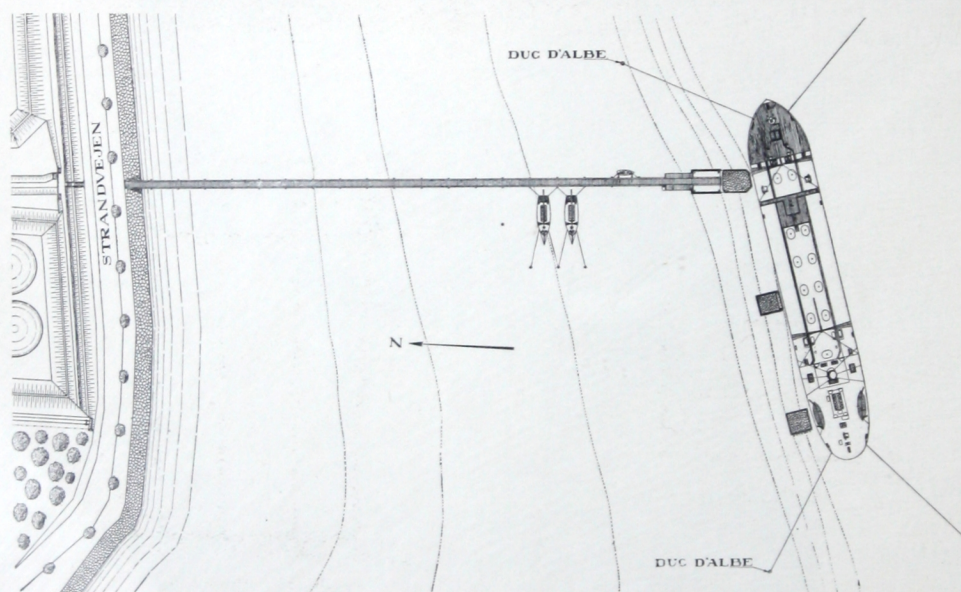


COAL DISCHARGING PLANT

SAXILD & PARTNERS



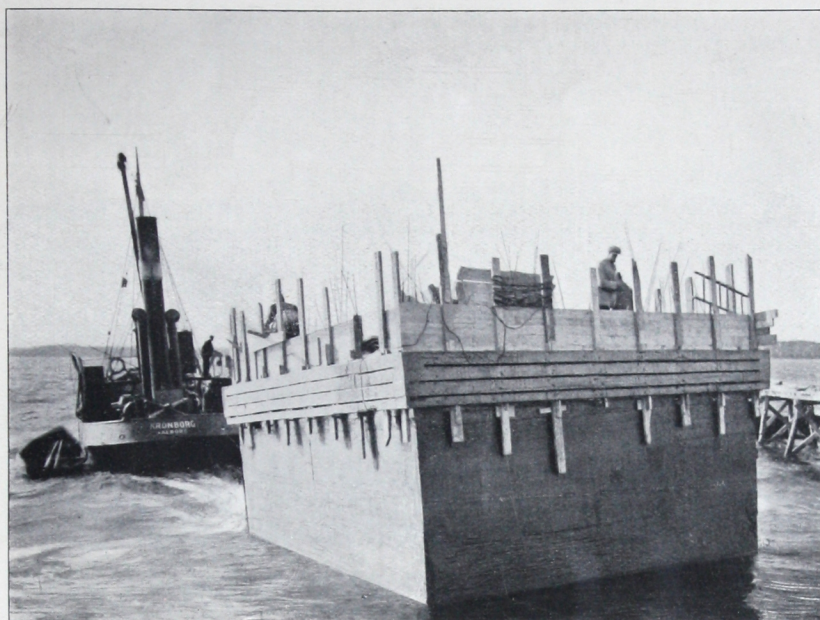
GENERAL VIEW



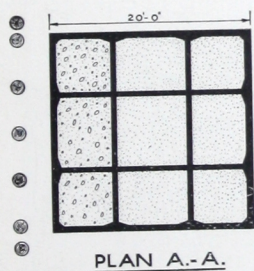
PLAN

JETTY AND MOORING DOLPHINS FOR DISCHARGING OIL

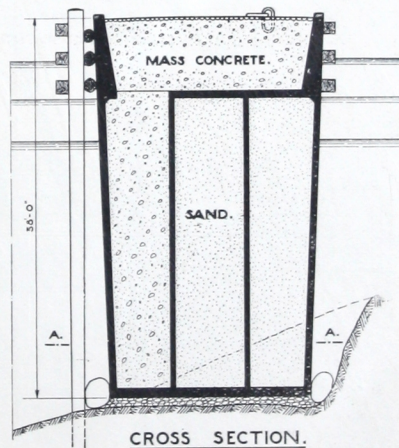
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CAISSON FOR DOLPHIN BEING TOWED INTO POSITION



PLAN A.-A.



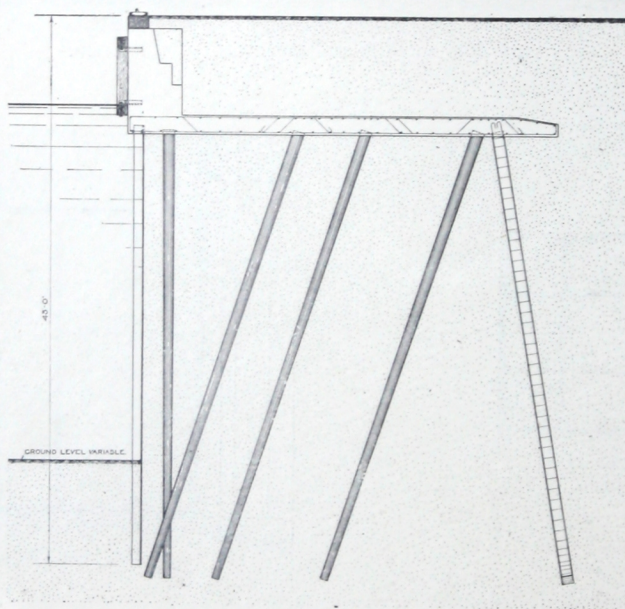
CROSS SECTION.

MOORING DOLPHIN AT OIL DISCHARGING DEPOT

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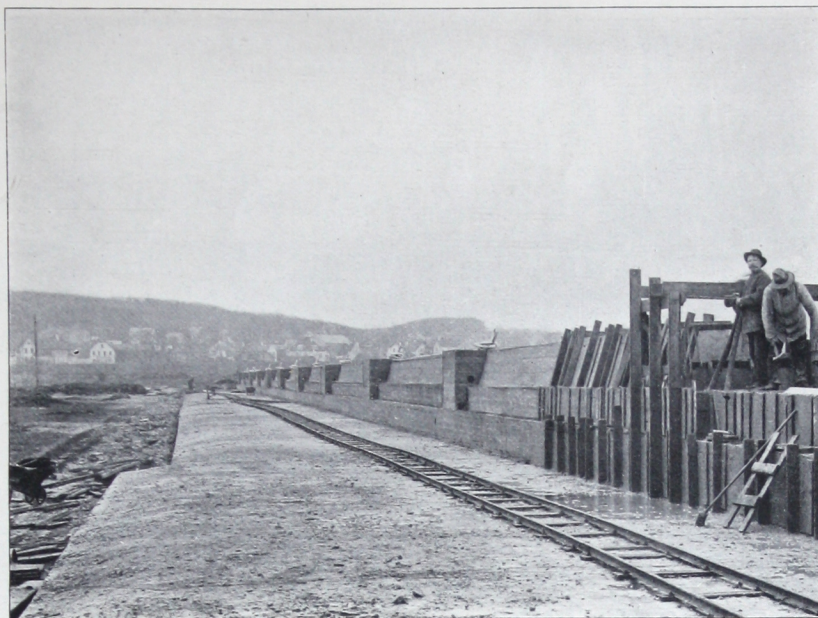
FRONT VIEW: BEFORE EXCAVATION



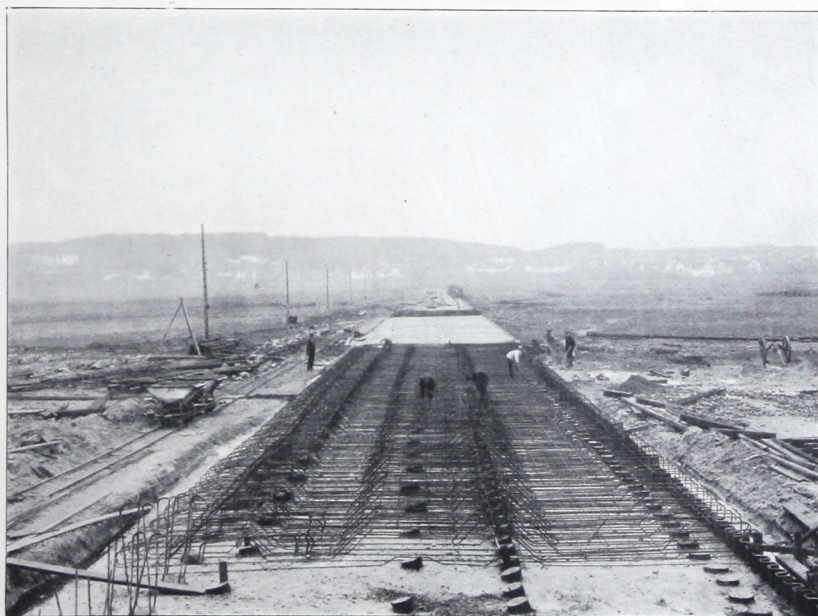
CROSS SECTION

DEEP WATER QUAY WALL (TOTAL LENGTH 1,600 ft.)
[THE QUAY WALL WAS BUILT BEFORE THE DOCK WAS EXCAVATED]

SAXILD & PARTNERS



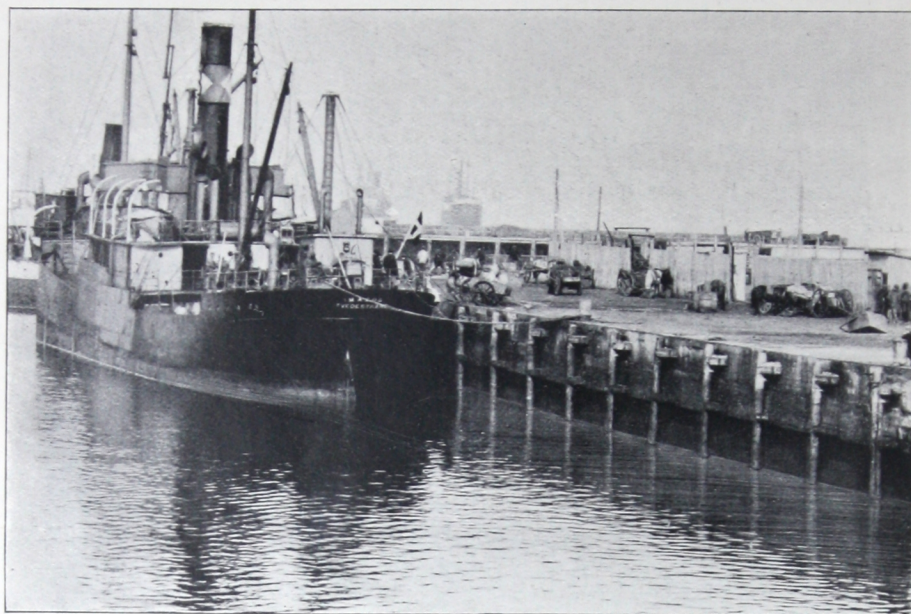
VIEW FROM REAR: SHOWING WALL BEFORE BACK-FILLING



VIEW DURING CONSTRUCTION: SHOWING PILE-HEADS AND REINFORCEMENT

DEEP WATER QUAY WALL (TOTAL LENGTH 1,600 FT.)

SAXILD & PARTNERS



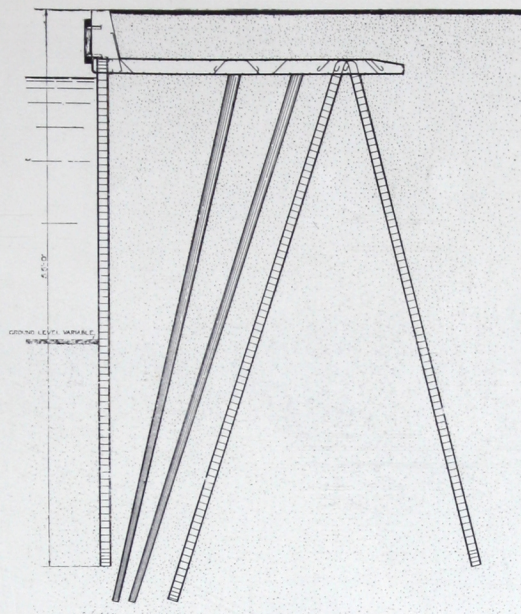
FRONT VIEW



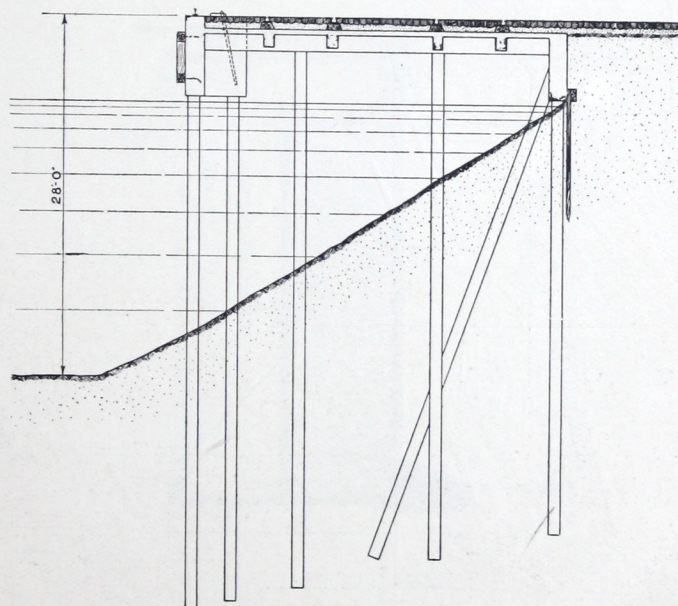
PILE-DRIVING IN PROGRESS

TIDAL DEEP-WATER QUAY (TOTAL LENGTH 400 FT)

SAXILD & PARTNERS



DEEP WATER QUAY WALL OF REINFORCED CONCRETE (TOTAL LENGTH 600 FT.)



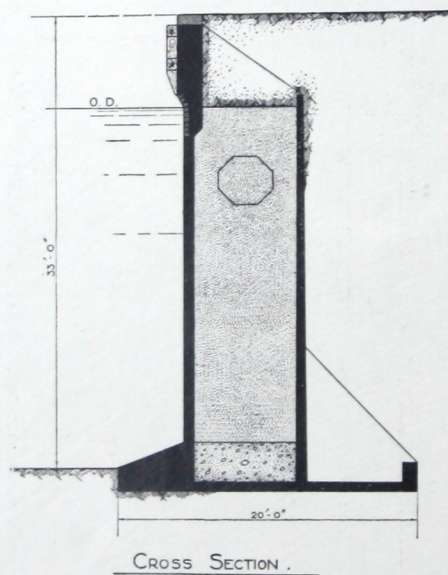
CROSS SECTION

PILE WHARF FOR DISCHARGING COAL (TOTAL LENGTH 300 FT.)

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QUAY WALL (TOTAL LENGTH 500 FT.)



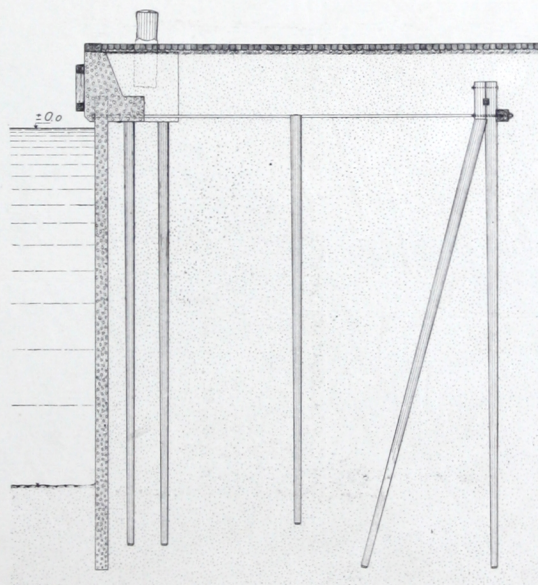
CROSS SECTION.

QUAY WALL BUILT WITH FLOATING REINFORCED CONCRETE CAISSONS
(TOTAL LENGTH 800 FT.)

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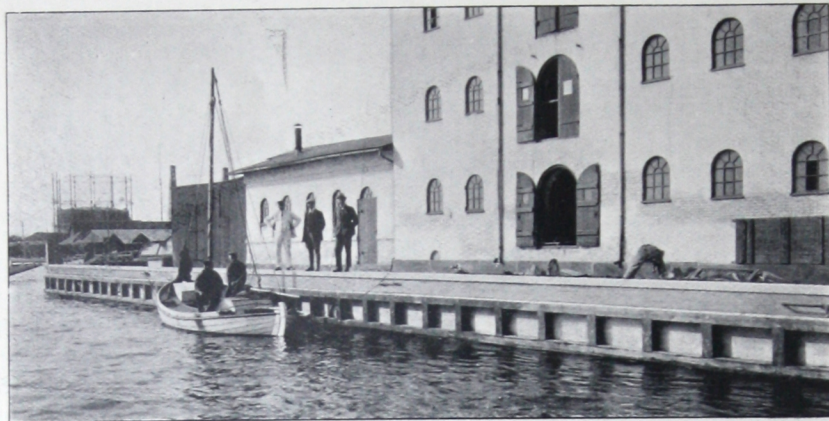
FRONT VIEW



CROSS SECTION

QUAY WALL (TOTAL LENGTH 1,400 FT.)

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QUAY WALL (TOTAL LENGTH 150 FT.)

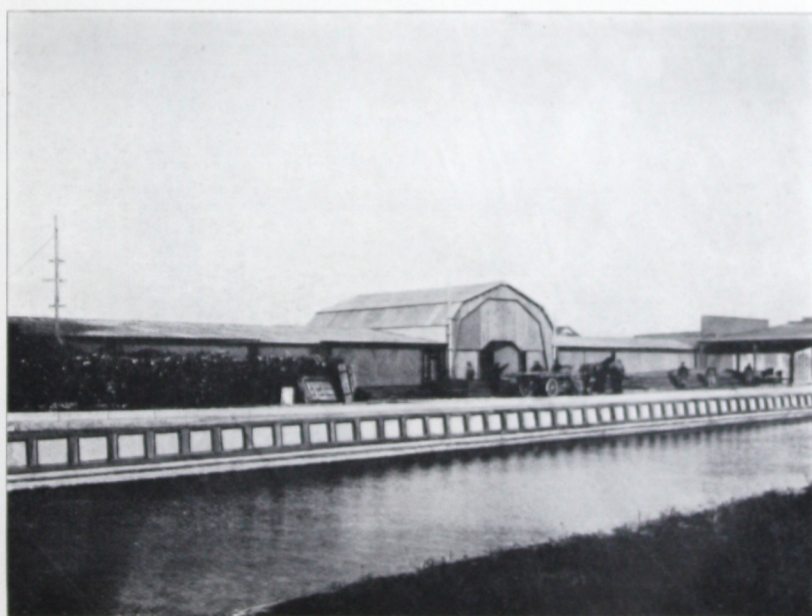


RIVERSIDE WALL (TOTAL LENGTH 300 FT.)

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QUAY WALL (TOTAL LENGTH 600 FT.)



RIVERSIDE WALL (TOTAL LENGTH 250 FT.)

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SEA WALL (TOTAL LENGTH 500 FT.)



DRIVING STEEL PILES



DRIVING CONCRETE PILES

SAXILD & PARTNERS



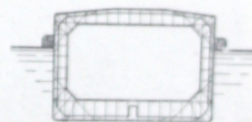
CAISSON BEING LOWERED INTO POSITION



PLAN



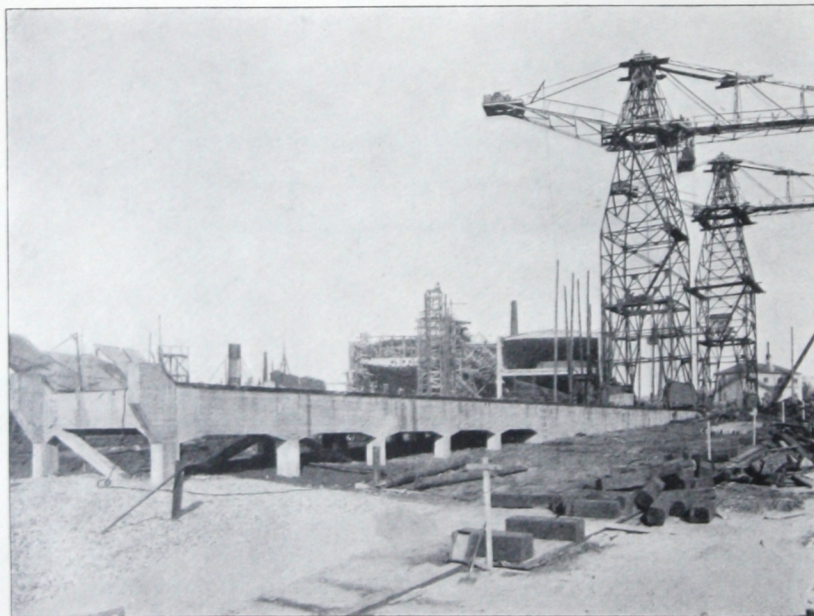
CROSS SECTION



CROSS SECTION

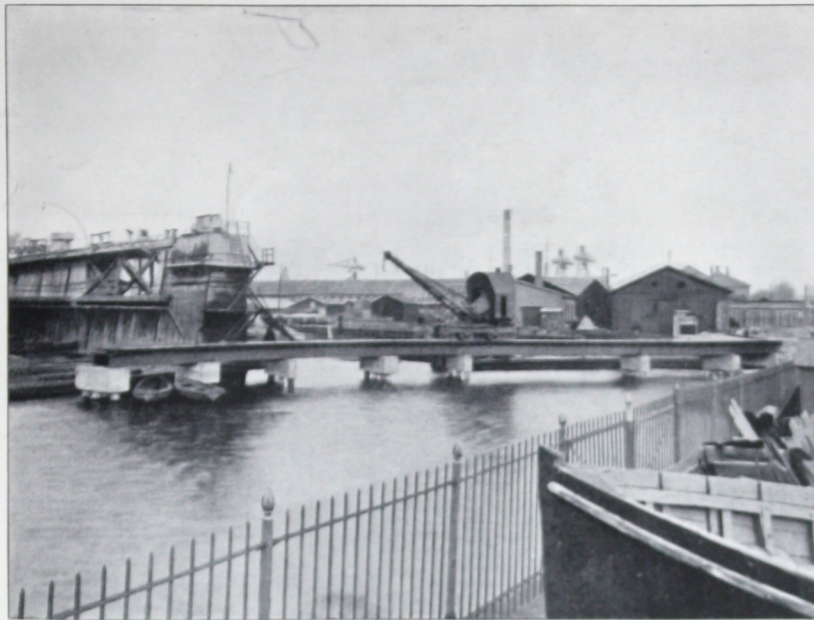
REINFORCED CONCRETE CAISSON FOR CLOSING ENTRANCE TO OIL-
DISCHARGING DOCK

SAXILD & PARTNERS



CRANE FOUNDATIONS AND SLIPWAYS

SAXILD & PARTNERS

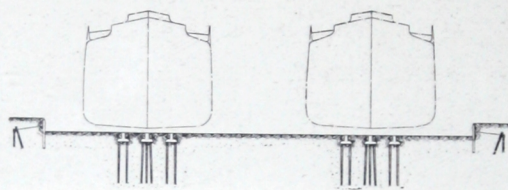
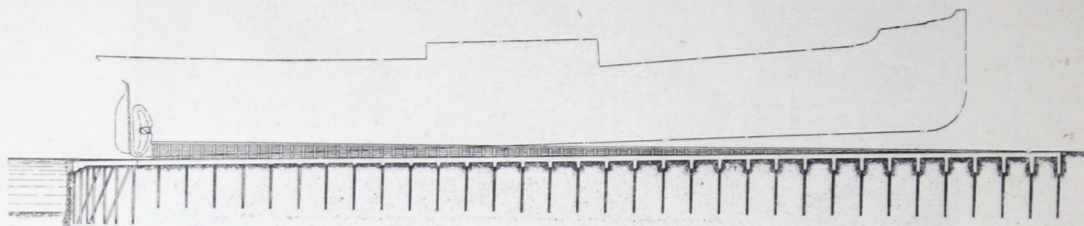


BRIDGE CARRYING TRAVELLING CRANE



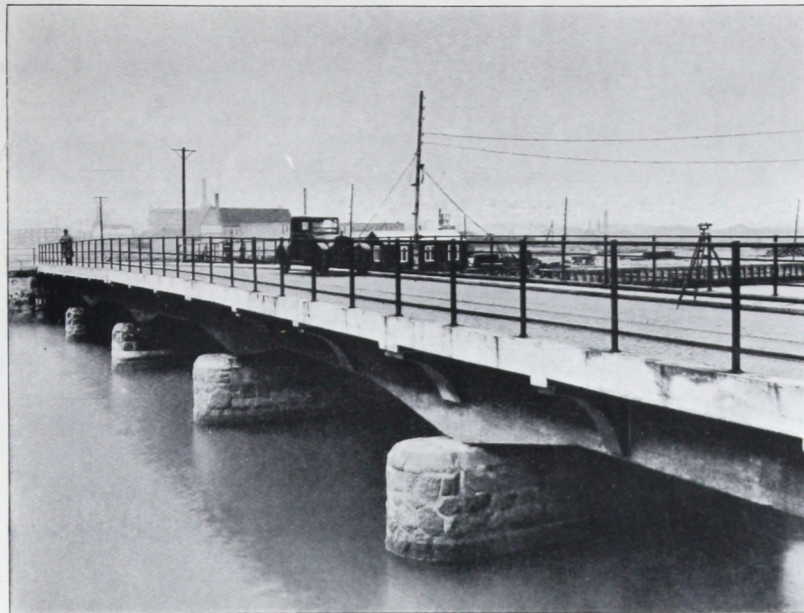
FOUNDATION FOR 100-TON CRANE

SAXILD & PARTNERS

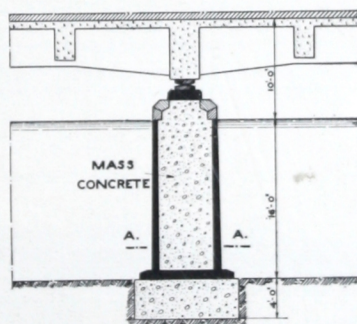


REINFORCED CONCRETE SLIPWAYS

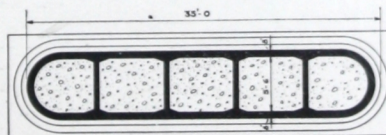
SAXILD & PARTNERS



GENERAL VIEW



CROSS SECTION.



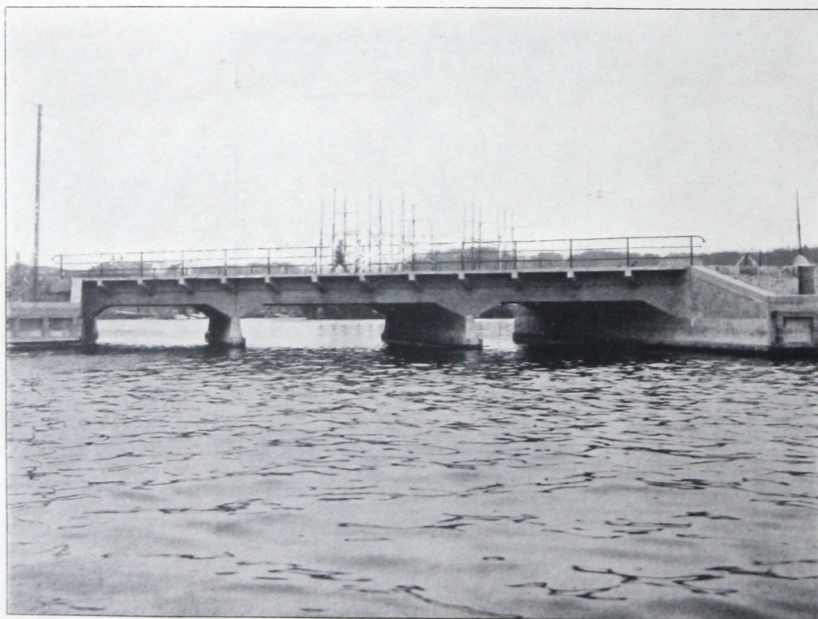
PLAN A-A.

BRIDGE ON PIERS BUILT WITH FLOATING REINFORCED CONCRETE
CAISSONS

SAXILD & PARTNERS

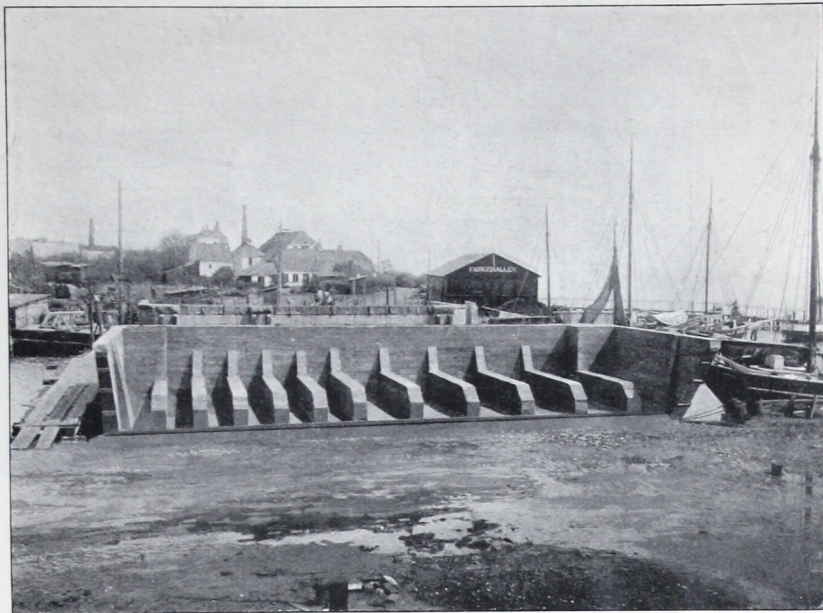


GENERAL VIEW

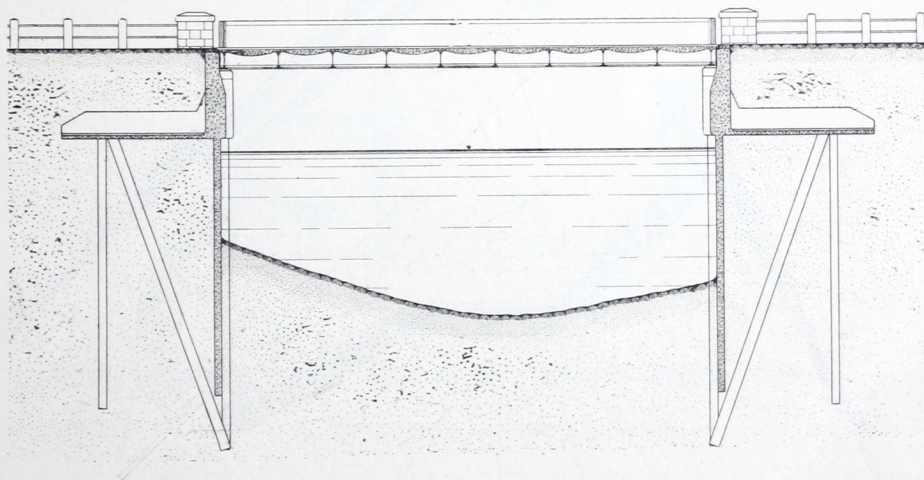


BRIDGE BUILT ON REINFORCED CONCRETE PILES

SAXILD & PARTNERS



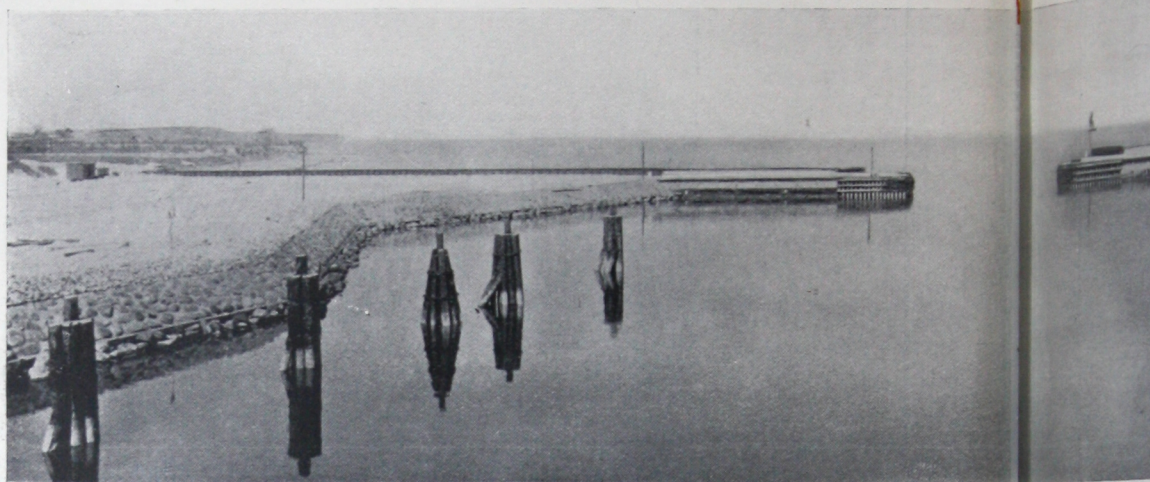
REAR VIEW OF ABUTMENT WALL: SHOWING RIBS



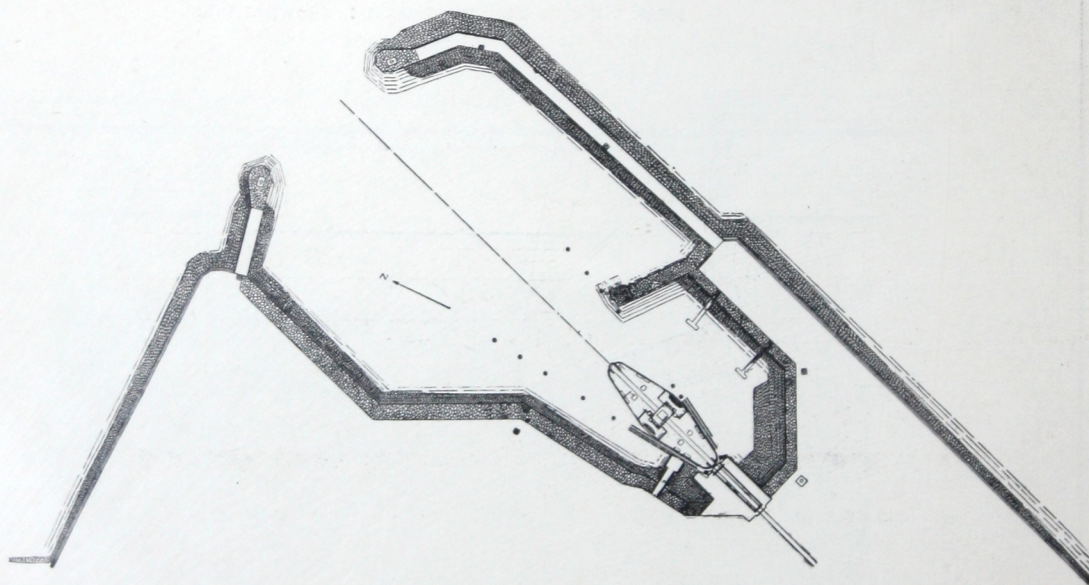
CROSS SECTION

REINFORCED CONCRETE ABUTMENT WALL FOR
STEEL-GIRDER BRIDGE

SAXILD & PARTNERS



GENERAL VIEW OF ENTRANCE



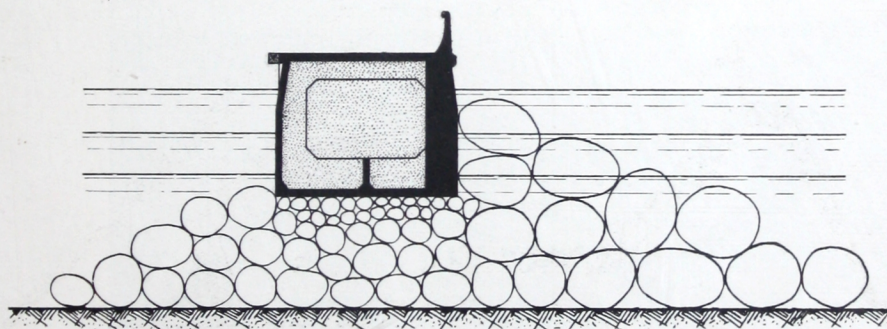
PLAN

FISHING HARBOUR WITH BERTH FOR FERRY

SAXILD & PARTNERS



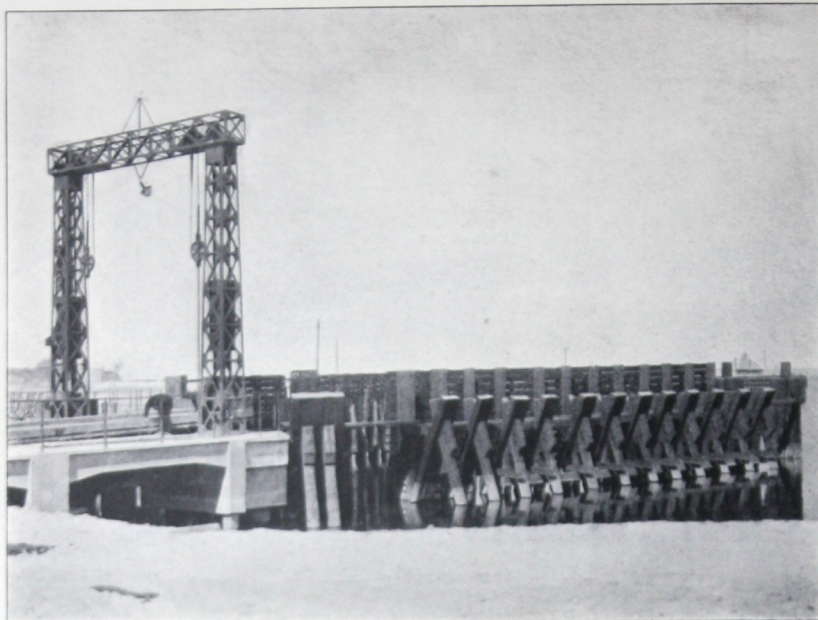
GENERAL VIEW OF ENTRANCE



CROSS SECTION OF BREAKWATER BUILT WITH REINFORCED CONCRETE CAISSONS

HARBOUR WITH BERTH FOR FERRY BOAT

SAXILD & PARTNERS



VIEW OF FERRY BERTH



VIEW OF REINFORCED CONCRETE CAISSONS IN BREAKWATER

FISHING HARBOUR WITH BERTH FOR FERRY BOAT

SAXILD & PARTNERS



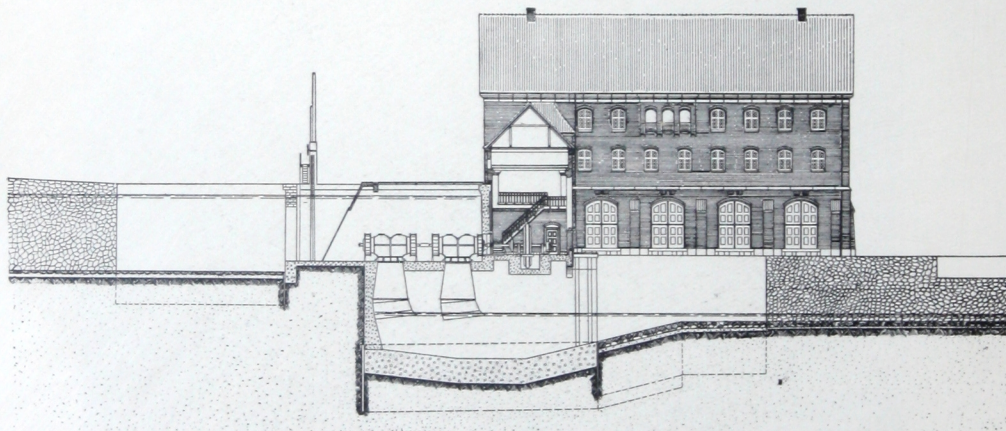
VIEWS OF SOUTHERN BREAKWATER

FISHING HARBOUR WITH BERTH FOR FERRY BOAT

SAXILD & PARTNERS



TAIL RACE



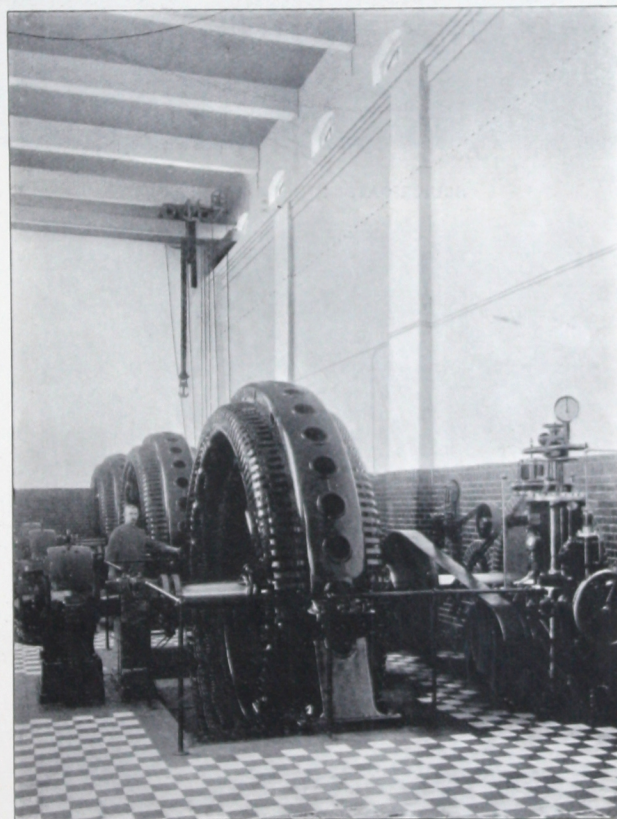
SECTION THROUGH TURBINE CHAMBERS

HYDRO ELECTRIC POWER STATION

SAXILD & PARTNERS



HEAD RACE

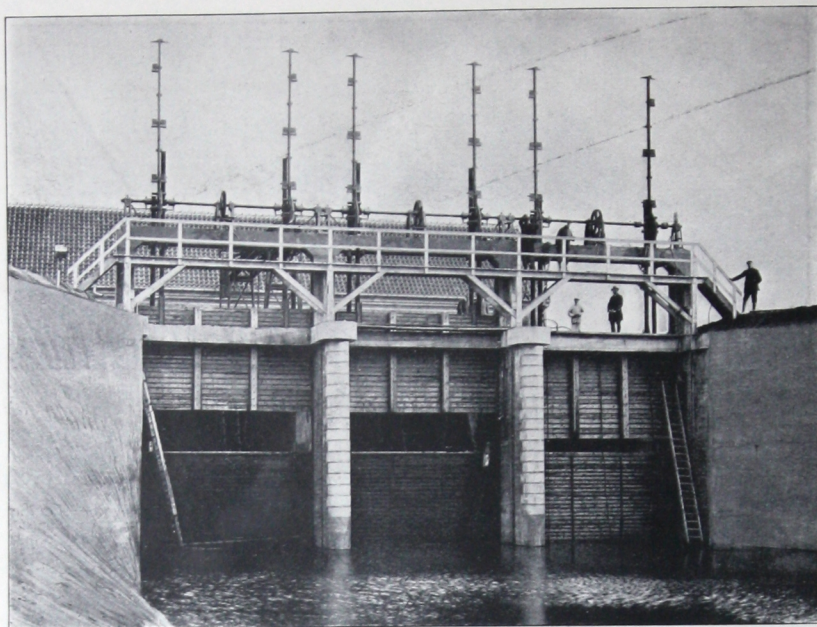


← Level of
Water outside
wall

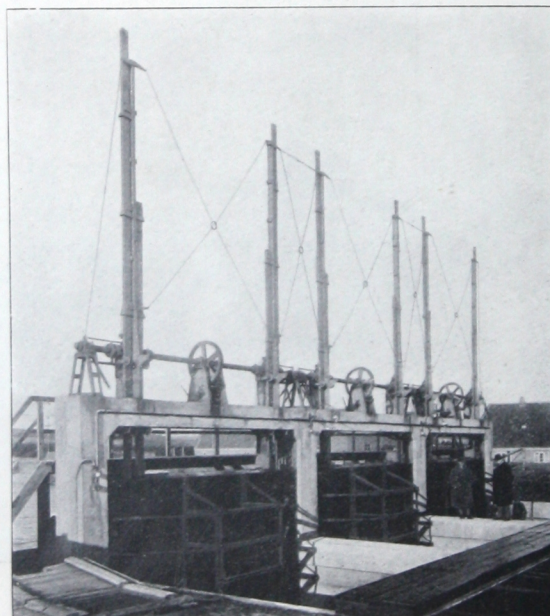
INTERIOR VIEW: SHOWING GENERATORS

HYDRO-ELECTRIC POWER STATION

SAXILD & PARTNERS

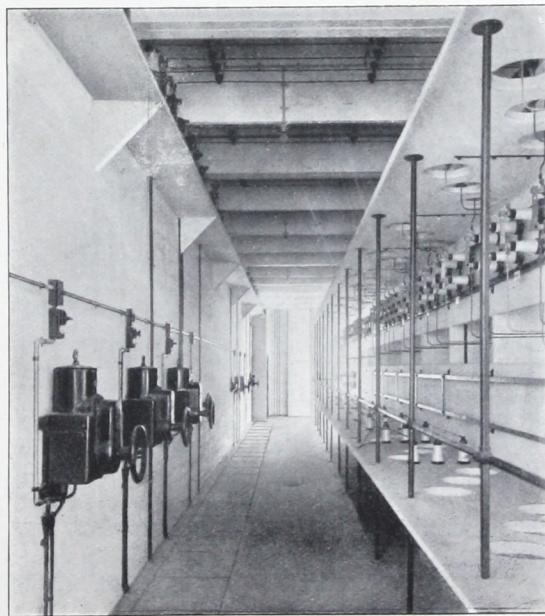
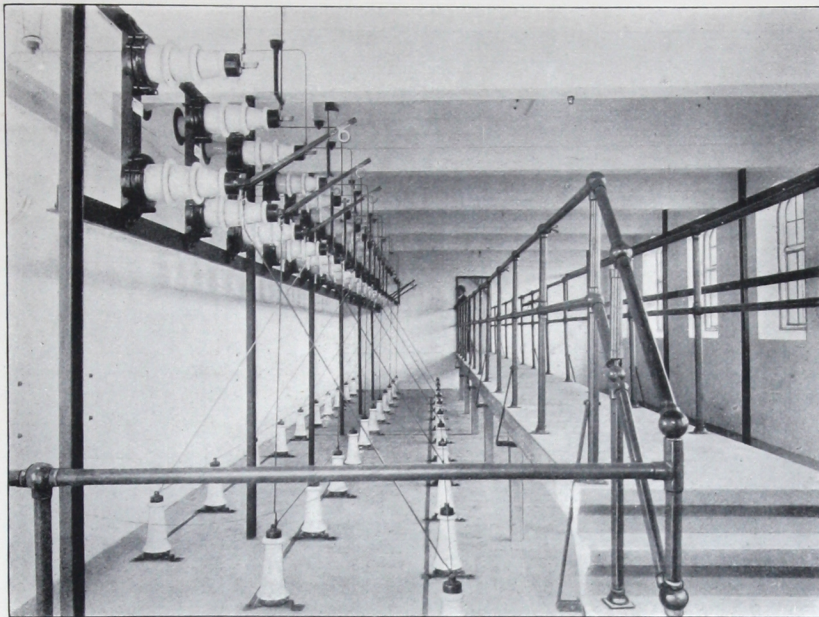


SLUICE-GATES : FROM OUTSIDE



SLUICE-GATES : FROM INSIDE
HYDRO-ELECTRIC POWER STATION

SAXILD & PARTNERS



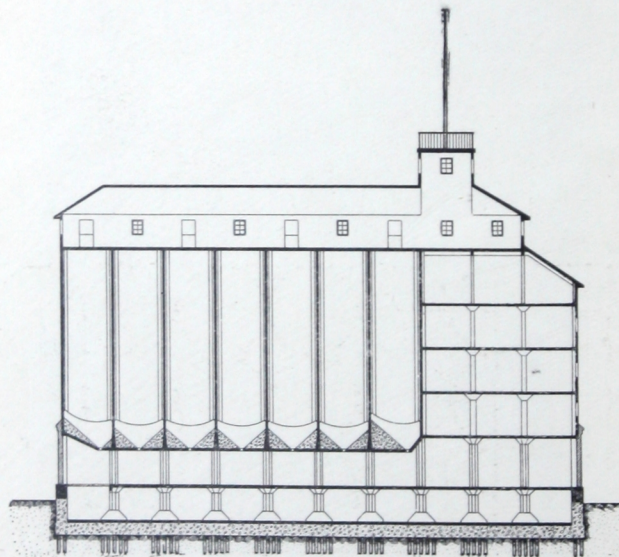
DISTRIBUTION ROOMS

HYDRO-ELECTRIC POWER STATION

SAXILD & PARTNERS



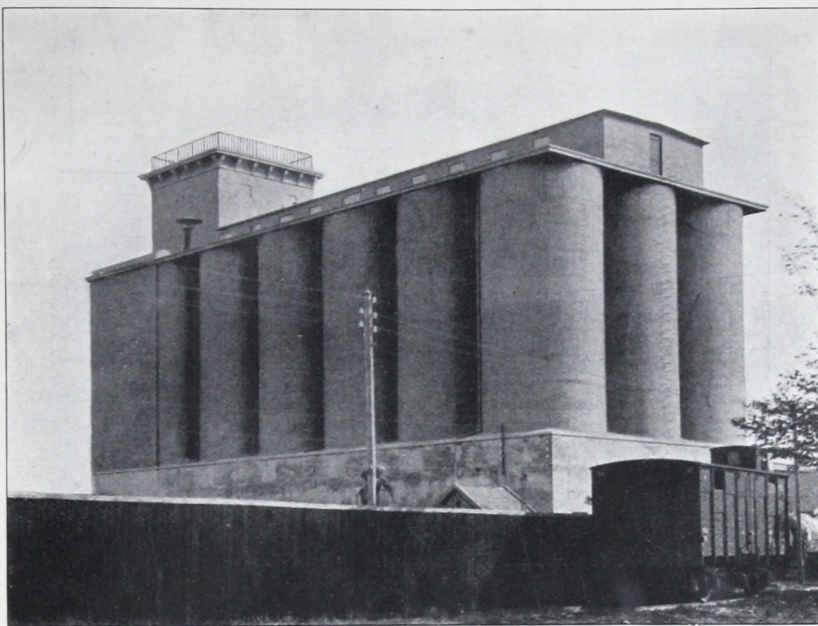
EXTERIOR VIEW



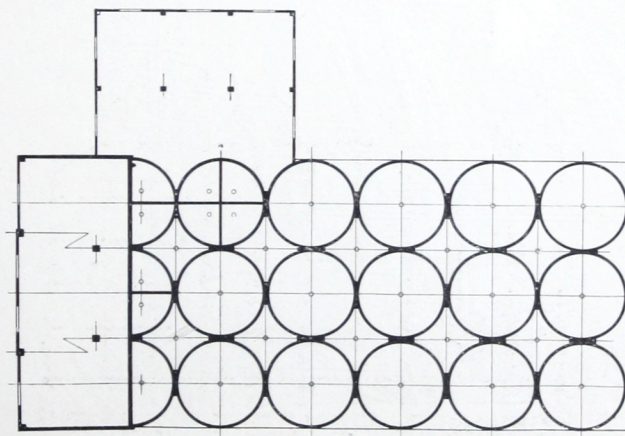
LONGITUDINAL SECTION

GRAIN SILO WITH SQUARE BINS

SAXILD & PARTNERS



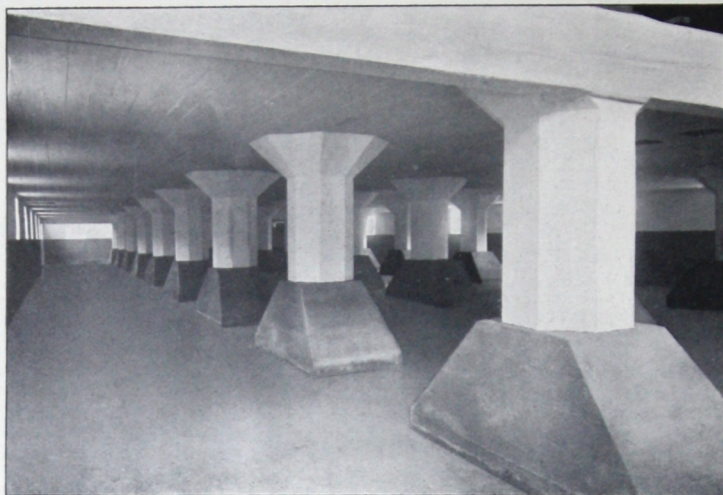
EXTERIOR VIEW



PLAN

GRAIN SILO WITH CIRCULAR BINS

SAXILD & PARTNERS



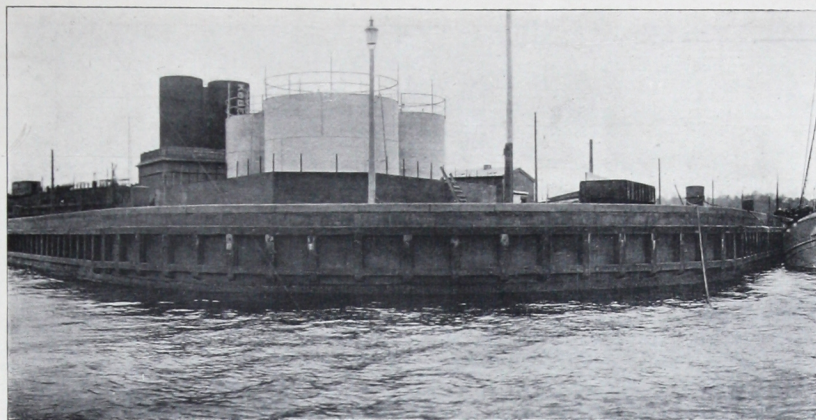
BASEMENT; SHOWING FLAT-SLAB CONSTRUCTION



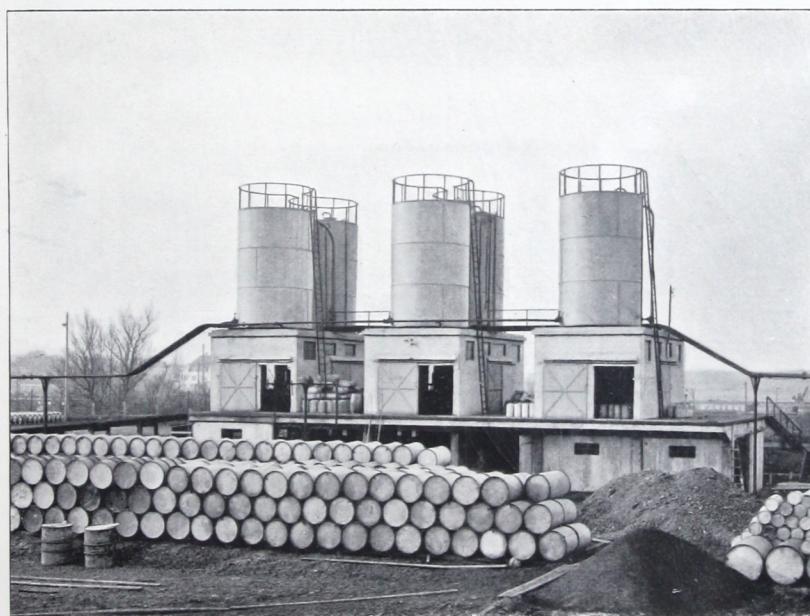
DURING CONSTRUCTION

GRAIN SILO

SAXILD & PARTNERS

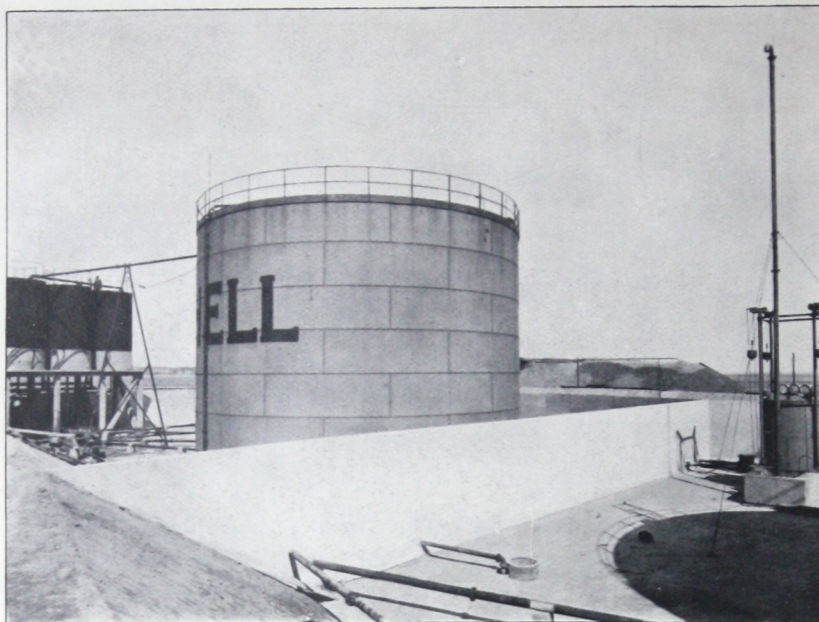


OIL STORAGE DEPOT

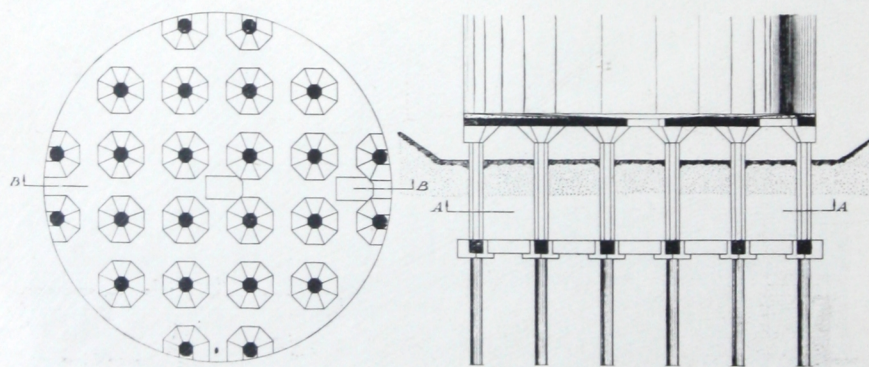


OIL FILLING DEPOT

SAXILD & PARTNERS



SHOWING PROTECTIVE WALL



Sectional Plan A-A.

Section B-B.

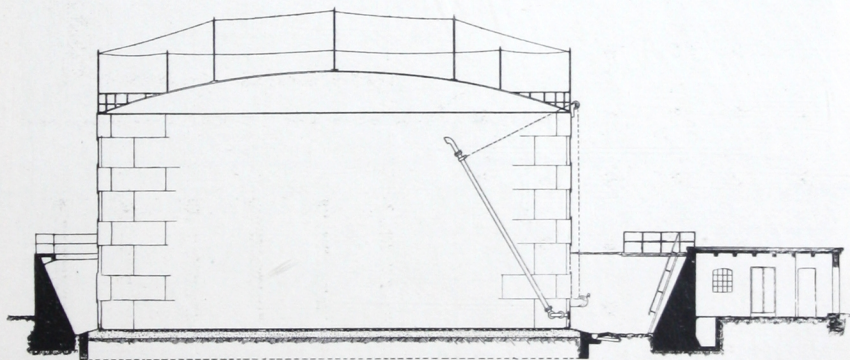
CROSS SECTION OF TANK FOUNDATION

OIL STORAGE DEPOT

SAXILD & PARTNERS



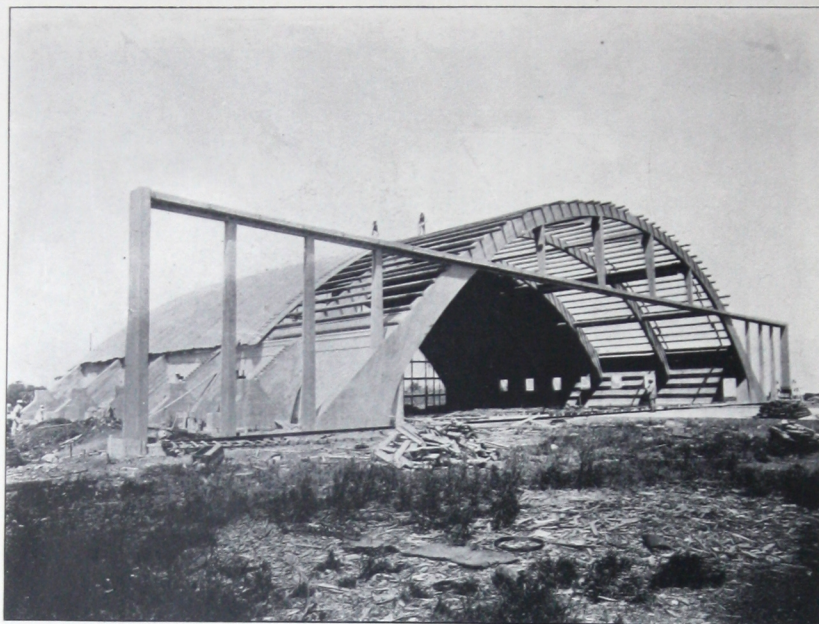
GENERAL VIEW



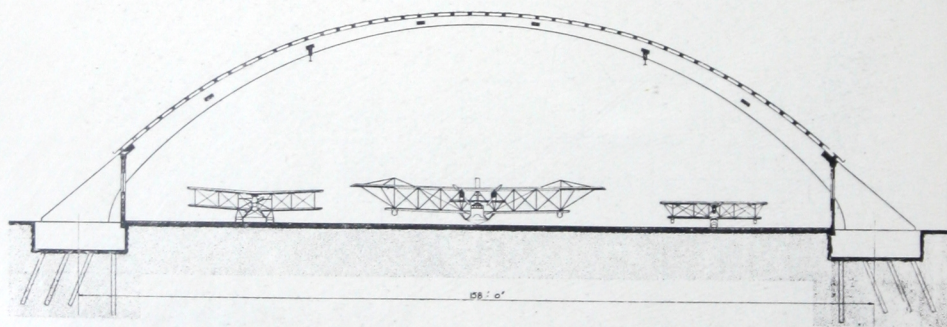
CROSS SECTION

OIL STORAGE DEPOT

SAXILD & PARTNERS



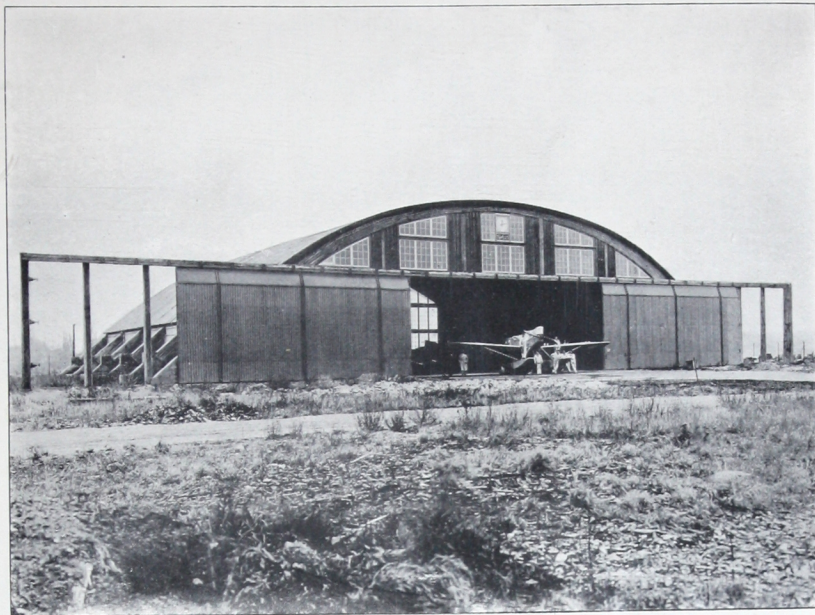
DURING CONSTRUCTION



CROSS SECTION

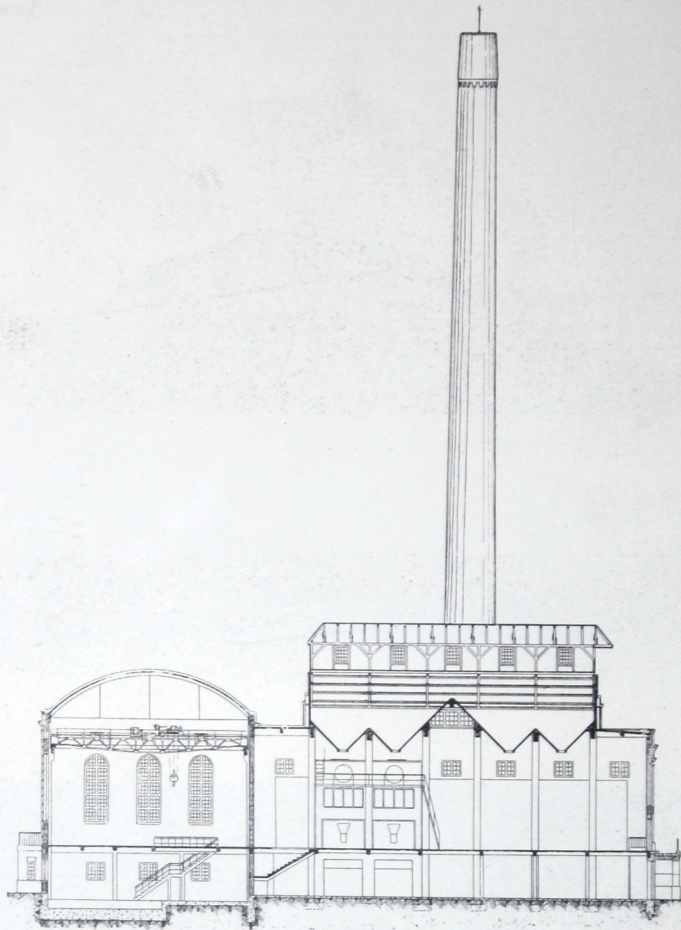
SEAPLANE HANGAR

SAXILD & PARTNERS

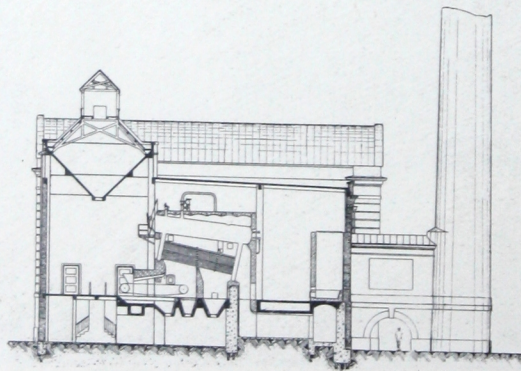


SEAPLANE HANGAR

SAXILD & PARTNERS

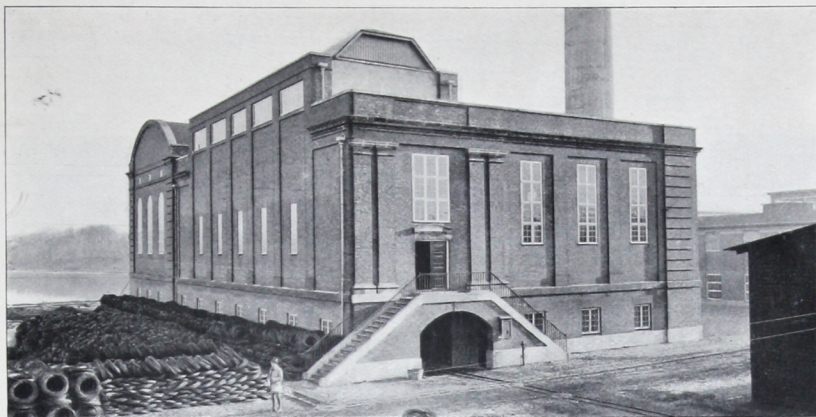


CROSS SECTION THROUGH ENGINE HOUSE

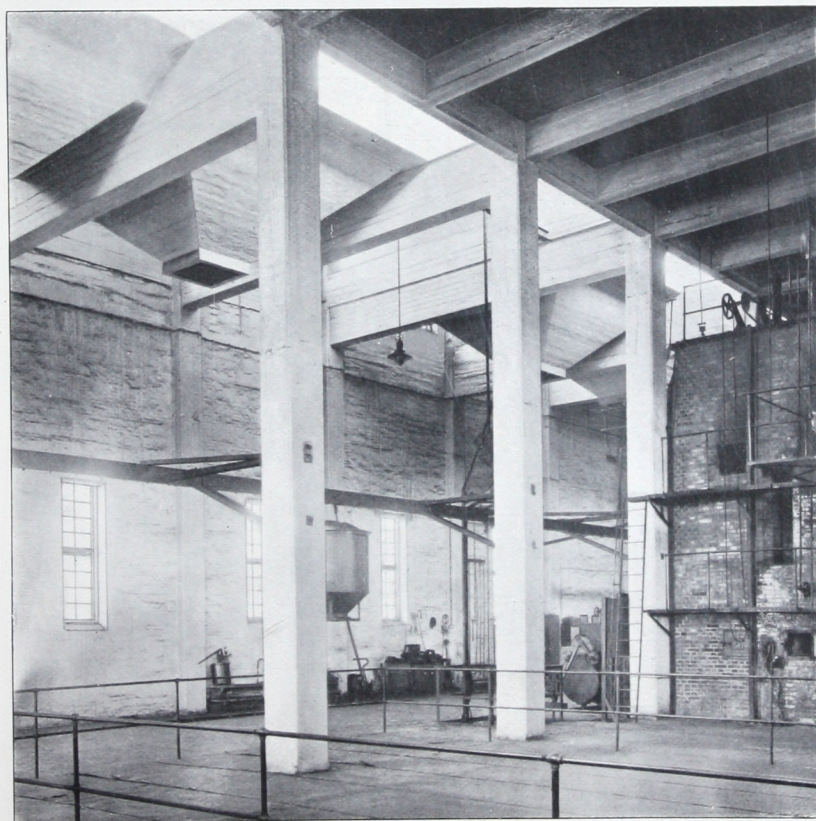


LONGITUDINAL SECTION THROUGH BOILER HOUSE
ELECTRIC POWER STATION

SAXILD & PARTNERS



EXTERIOR VIEW



INTERIOR OF BOILER HOUSE : SHOWING COAL BUNKERS

ELECTRIC POWER STATION

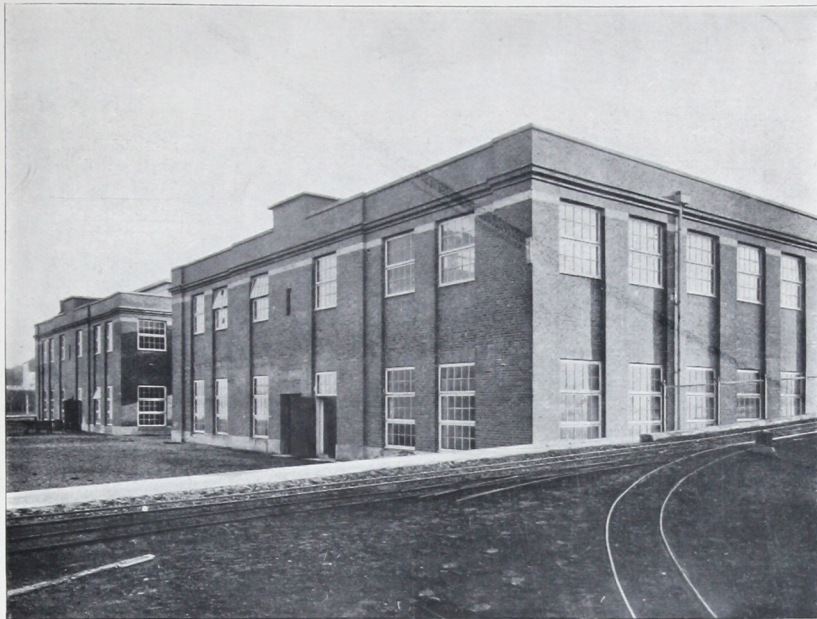
SAXILD & PARTNERS



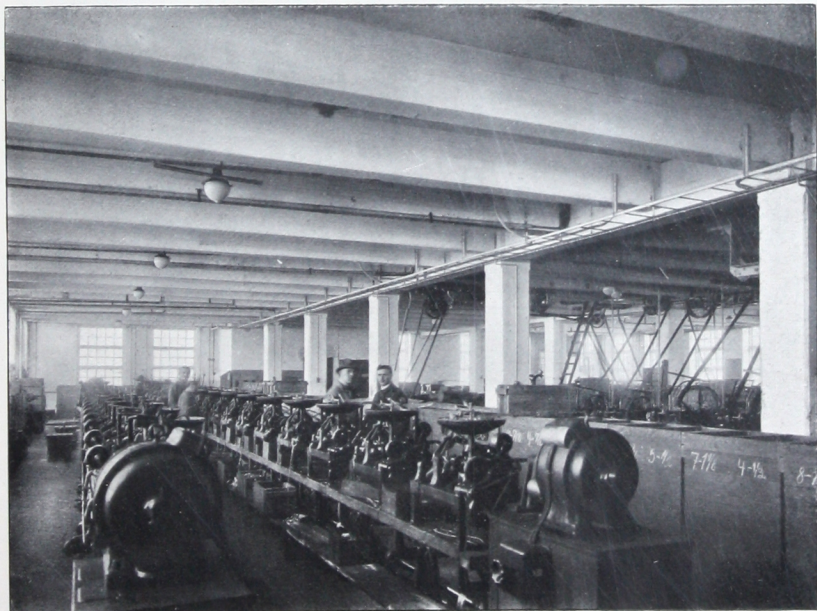
INTERIOR VIEW

ELECTRIC POWER STATION

SAXILD & PARTNERS

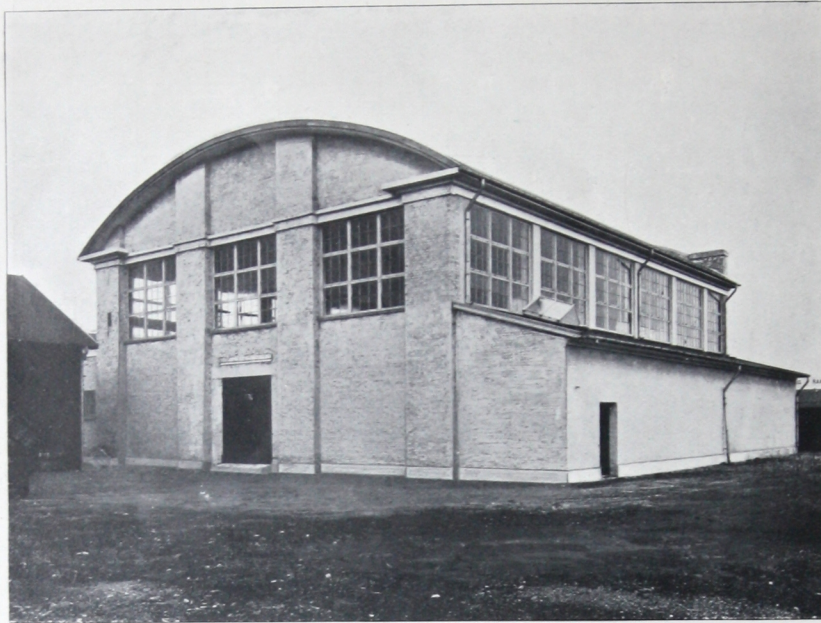


EXTERIOR VIEW



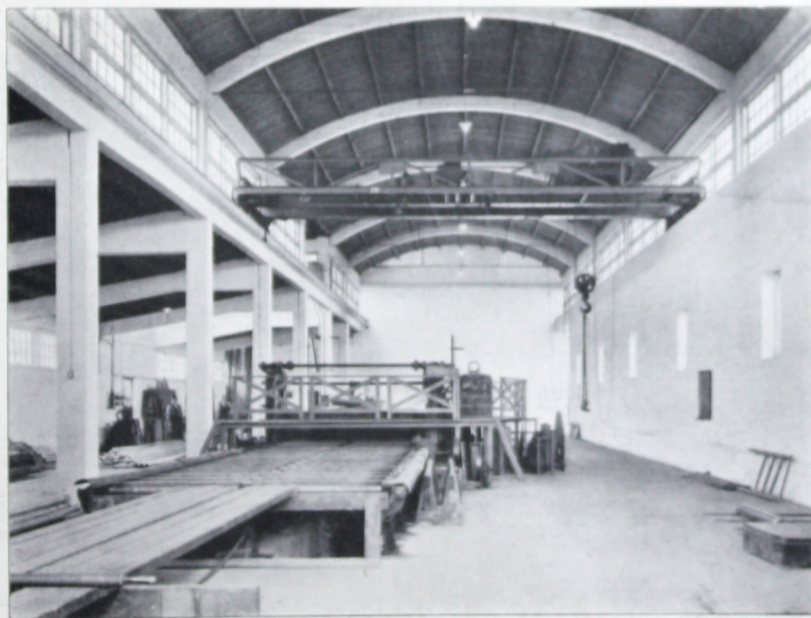
INTERIOR VIEW
ENGINEERING WORKSHOP

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FACTORY BUILDING

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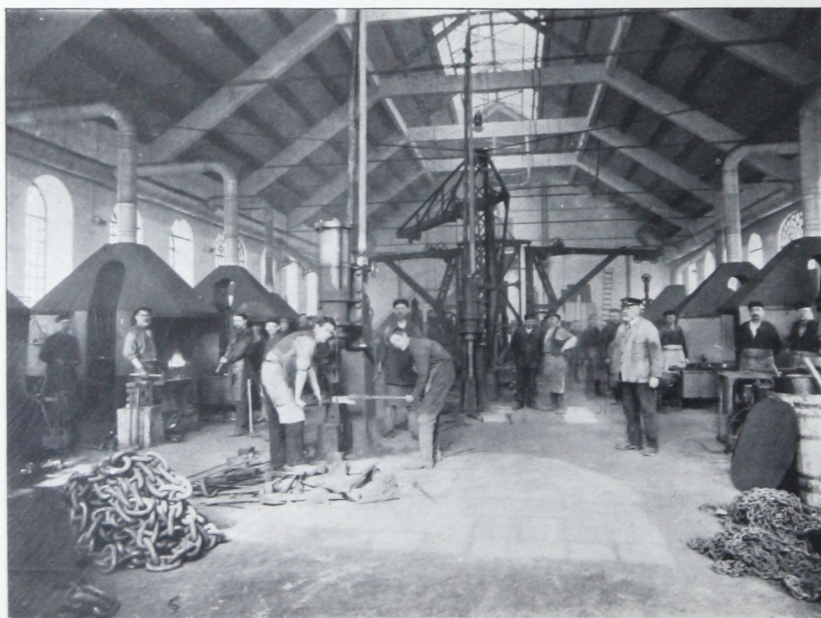


LEAD MILL

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ENGINEERS' SHOP



SMITHS' SHOP

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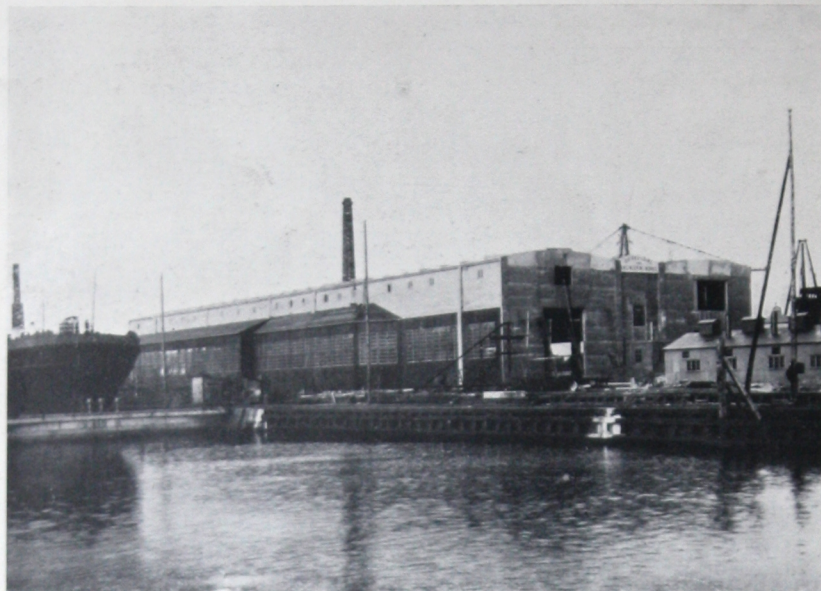


PORCELAIN FACTORY

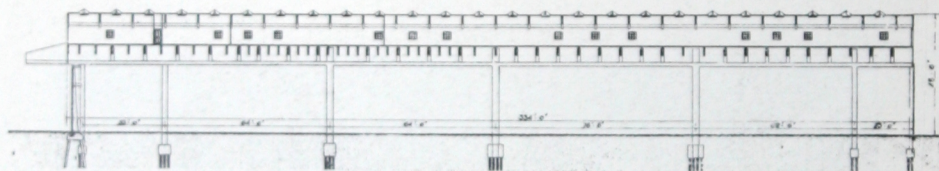


GARAGE

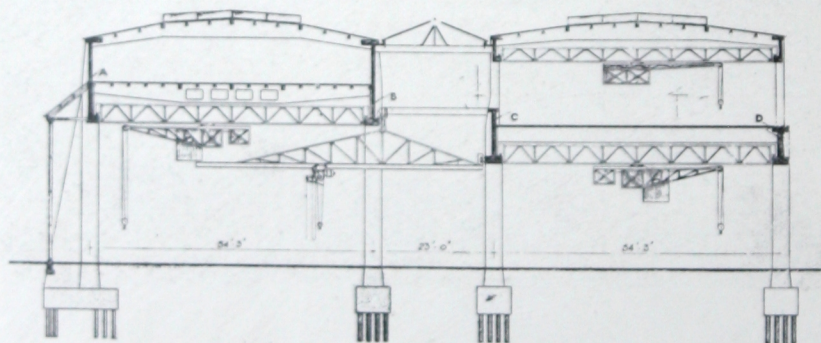
SAXILD & PARTNERS



GENERAL VIEW



LONGITUDINAL SECTION



CROSS SECTION

WORKSHOP

[The existing workshop (seen in the middle foreground) continued in use during the whole of the period whilst the new building was erected over it.]

SAXILD & PARTNERS

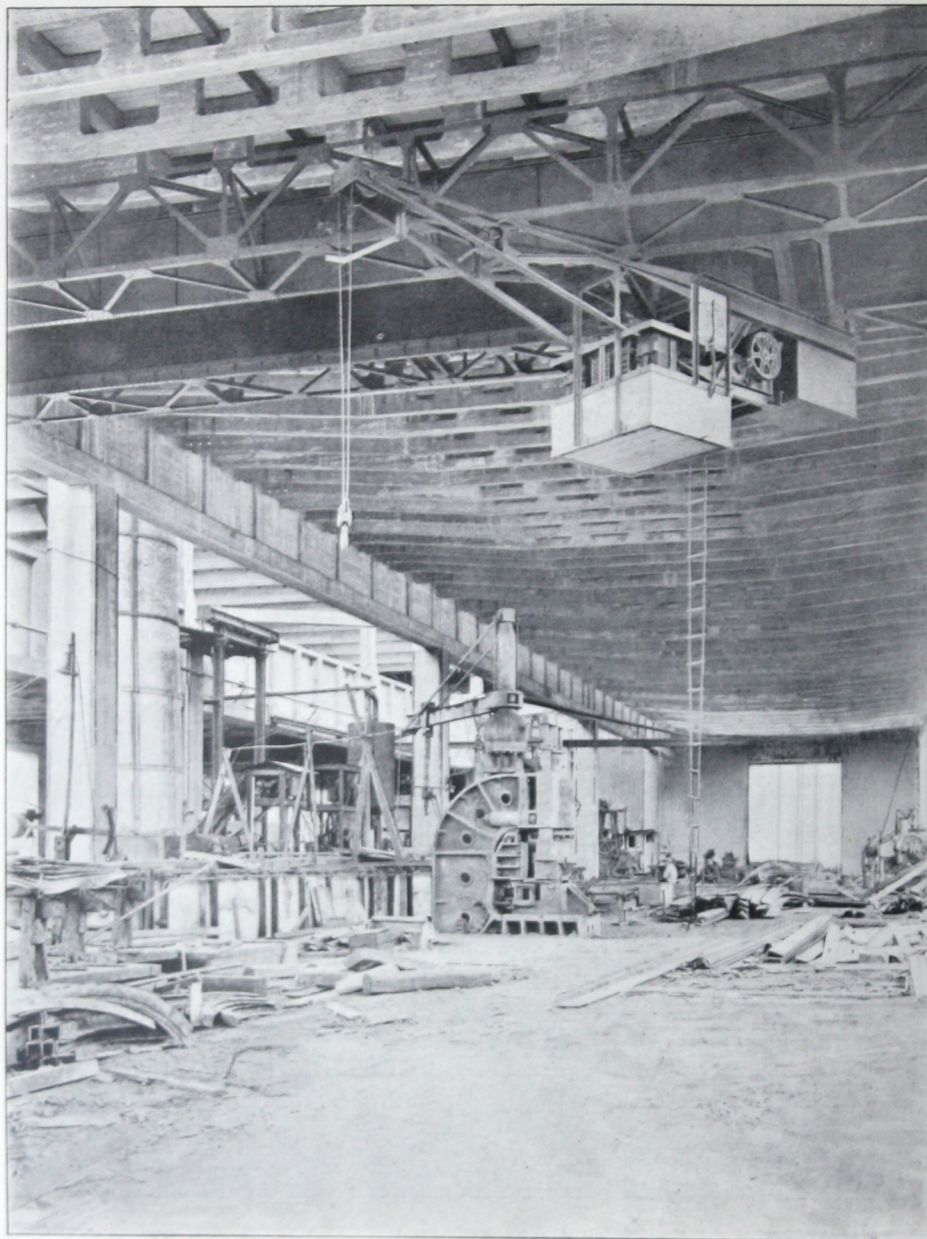


VIEW SHOWING PRE-CAST GIRDERS IN POSITION

WORKSHOP

[The existing workshop continued in use during the whole of the period whilst the new building was erected over it]

SAXILD & PARTNERS



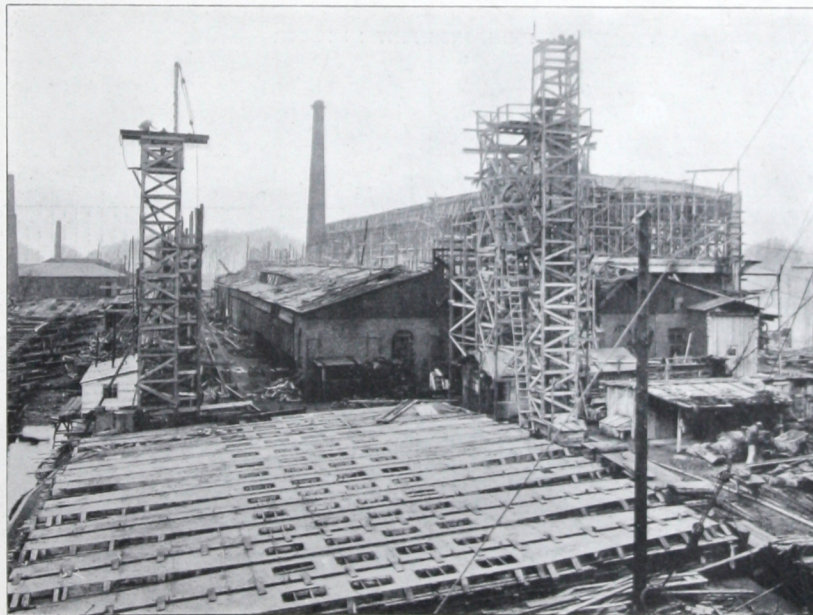
WESTERN BAY

WORKSHOP

SAXILD & PARTNERS



CENTRE BAY



END VIEW DURING CONSTRUCTION

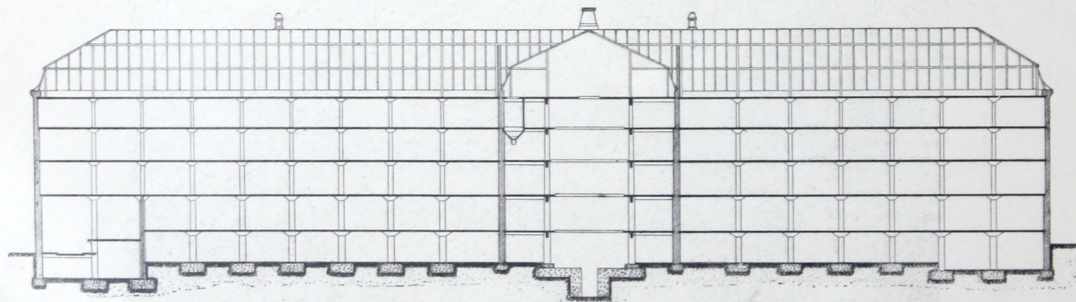
WORKSHOP

[The existing workshop (seen in the middle foreground) continued in use during the whole of the period whilst the new building was erected over it.]

SAXILD & PARTNERS



REINFORCEMENT IN FLOOR



LONGITUDINAL SECTION

PORCELAIN FACTORY

[FLOOR AREA 80,000 FT. SUPER: BUILT ON THE FLAT-SLAB SYSTEM]

SAXILD & PARTNERS



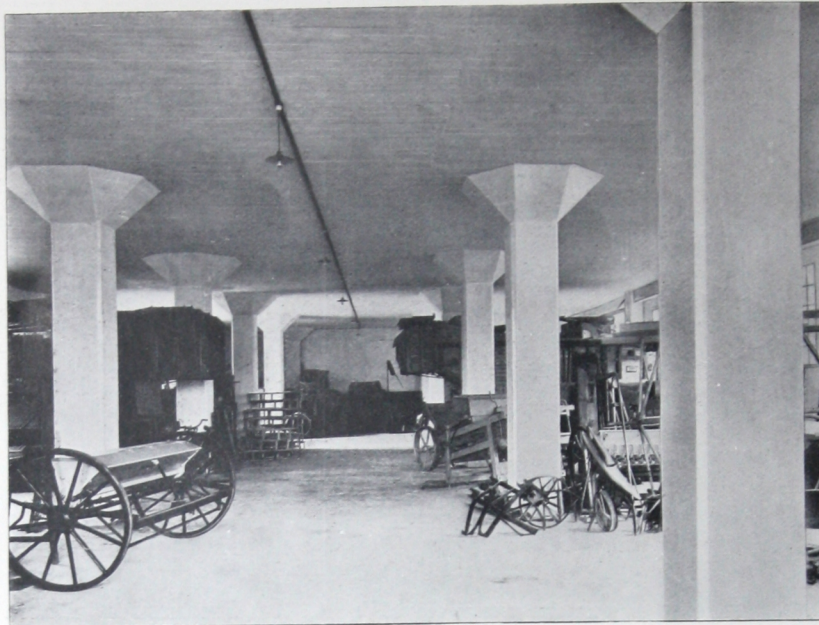
EXTERIOR VIEW



INTERIOR OF SHOW ROOM

PORCELAIN FACTORY

SAXILD & PARTNERS



INTERIOR VIEW : SHOWING FLAT-SLAB CONSTRUCTION

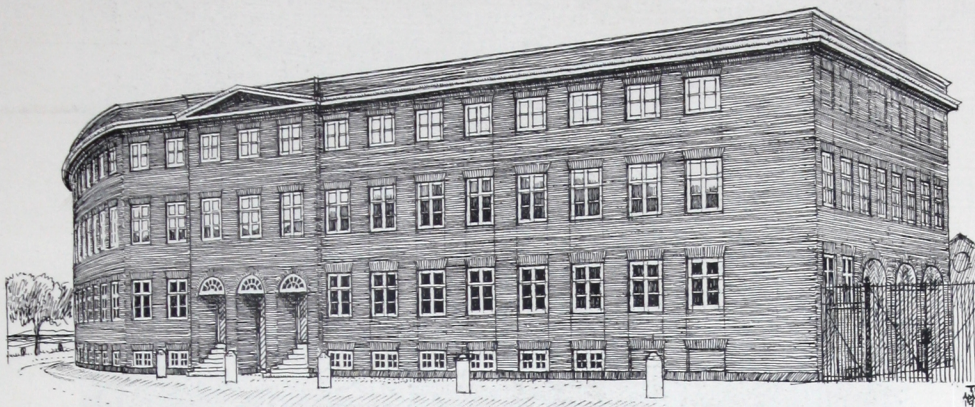


EXTERIOR VIEW

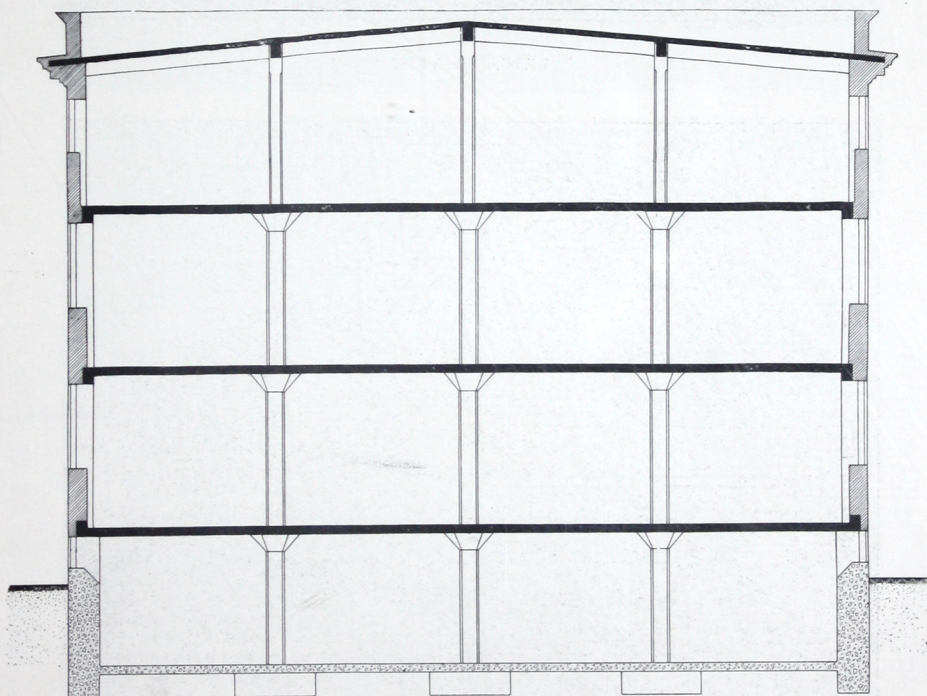
STORE BUILDING

[FLOOR AREA 20,000 FT. SUPER: BUILT ON THE FLAT-SLAB SYSTEM]

SAXILD & PARTNERS



EXTERIOR VIEW



CROSS SECTION

CANTEEN AT SHIPYARD

[FLOOR AREA 25,000 FT. SUPER : BUILT ON THE FLAT-SLAB SYSTEM]

SAXILD & PARTNERS



EXTERIOR VIEW

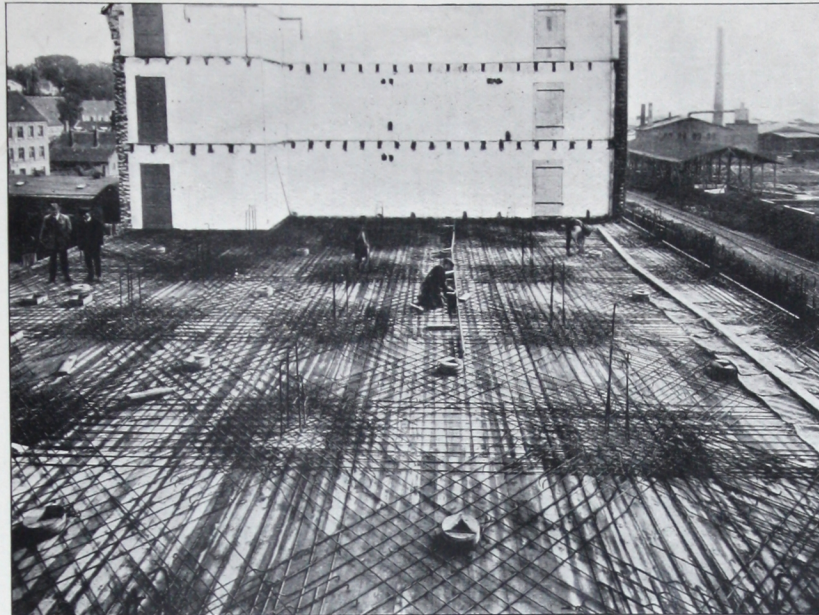


INTERIOR VIEW

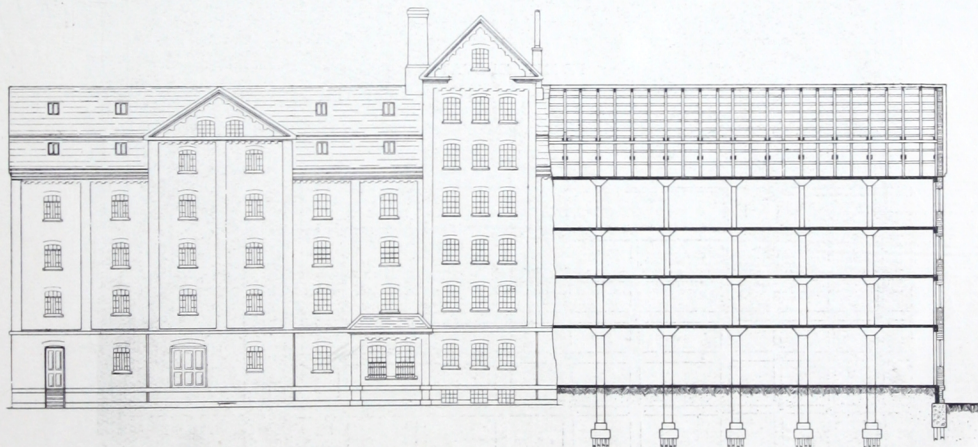
FACTORY BUILDING

[FLOOR AREA 35,000 FT. SUPER: BUILT ON THE FLAT-SLAB SYSTEM]

SAXILD & PARTNERS



VIEW SHOWING FLOOR REINFORCEMENT



PART SECTION

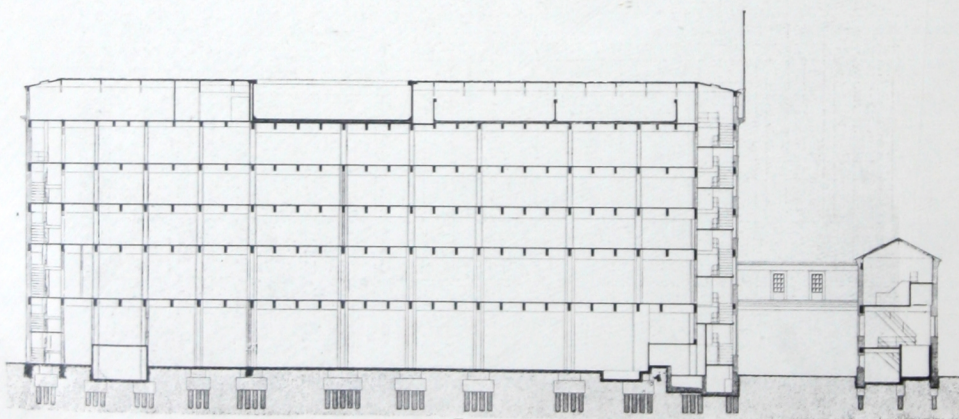
GRANARY

[FLOOR AREA OF RECONSTRUCTED PORTION 30,000 FT. SUPER: BUILT ON THE FLAT-SLAB SYSTEM]

SAXILD & PARTNERS



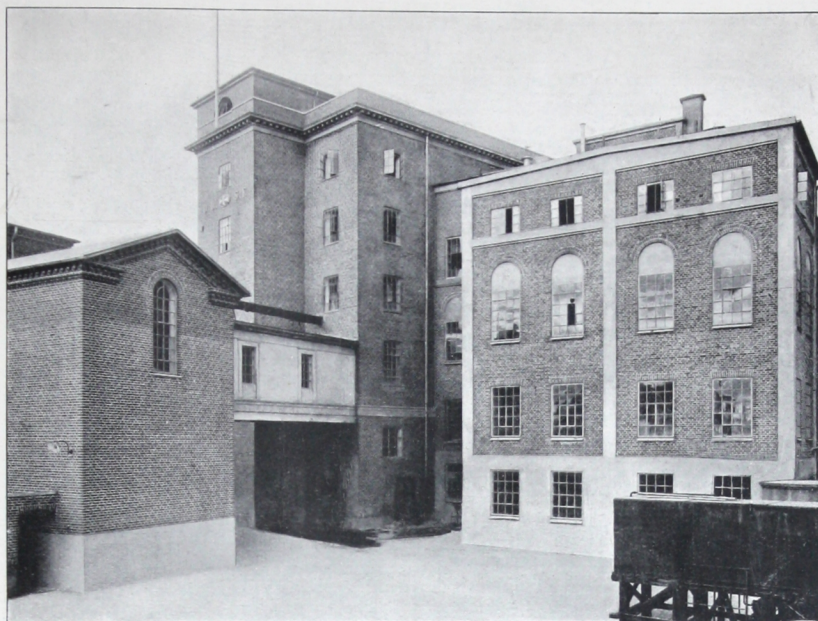
FRONT ELEVATION



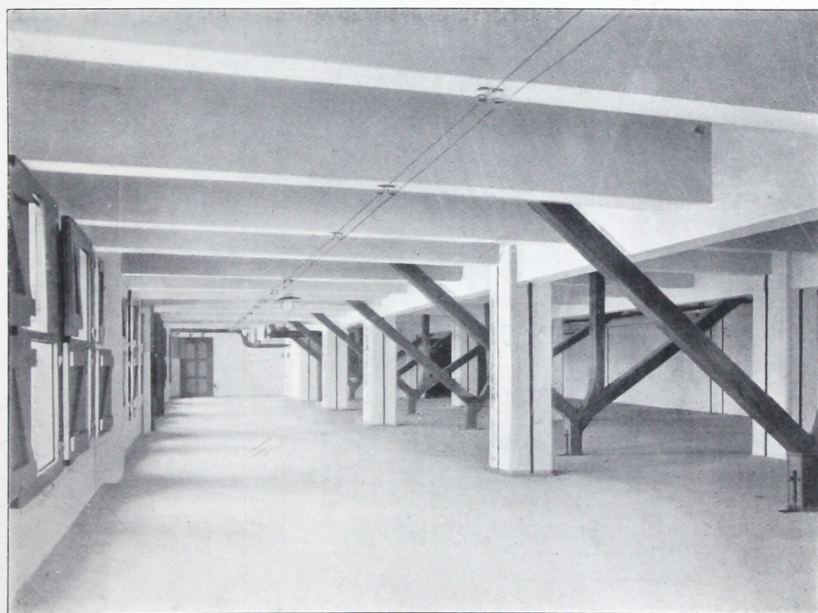
LONGITUDINAL SECTION

GRANARY

SAXILD & PARTNERS



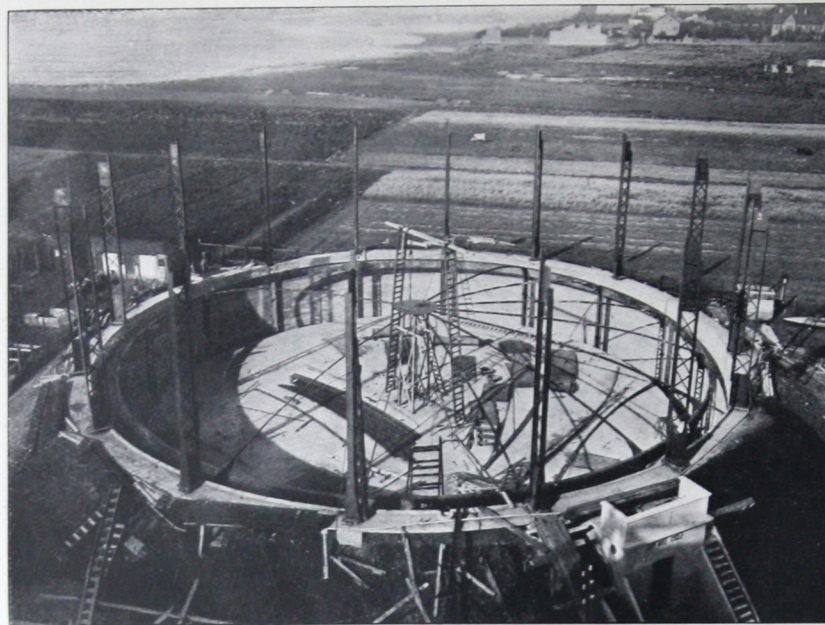
VIEW FROM THE REAR



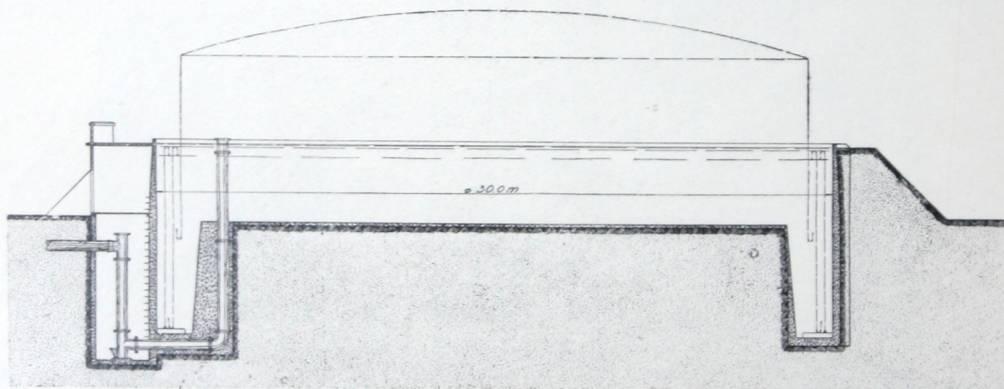
INTERIOR VIEW

GRANARY

SAXILD & PARTNERS



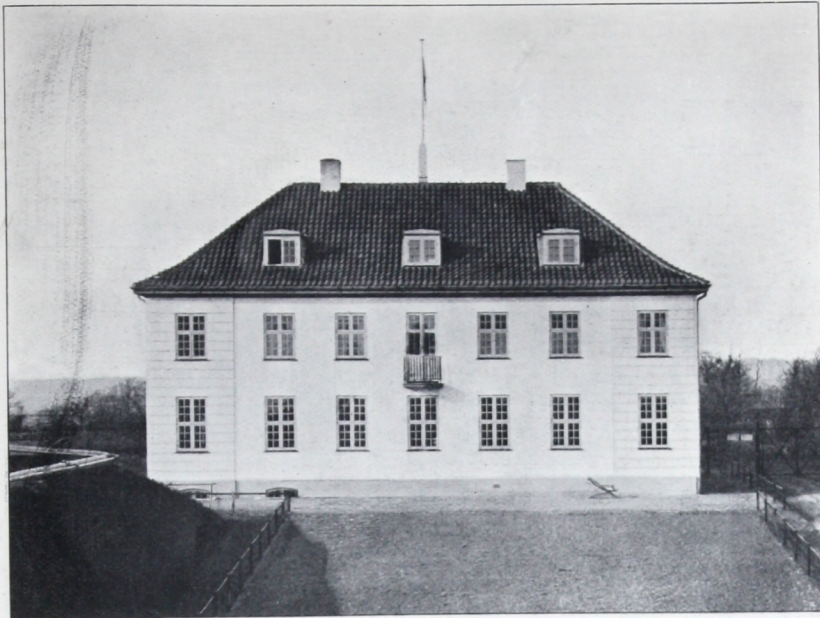
VIEW OF COMPLETED TANK



CROSS SECTION

GAS-HOLDER TANK

SAXILD & PARTNERS

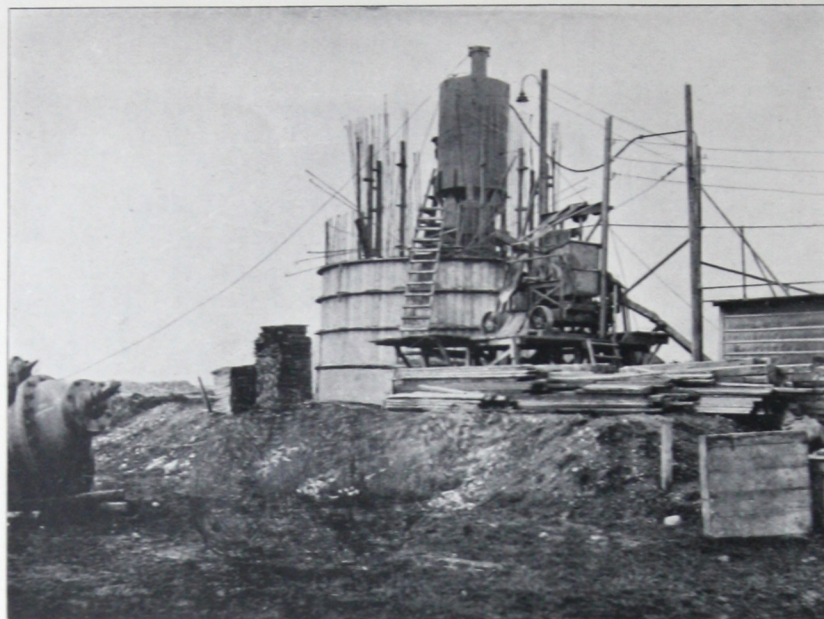


OFFICE BUILDING

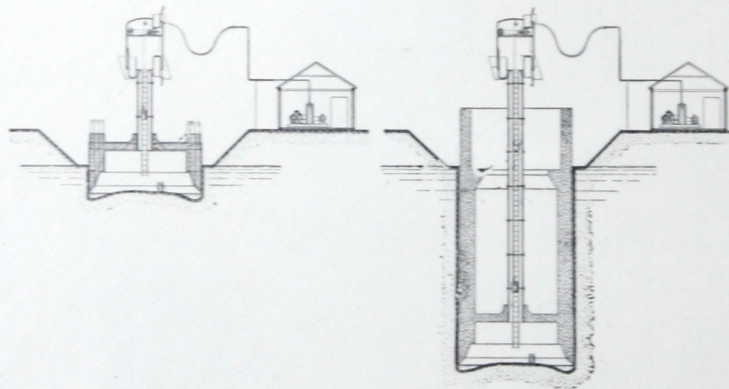


TRANSFORMER HOUSE

SAXILD & PARTNERS



GENERAL VIEW DURING CONSTRUCTION



CROSS SECTION SHOWING METHOD OF CONSTRUCTION

SINKING FOUNDATIONS BY COMPRESSED AIR

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